

NAVIGATION/CD TUNER

Operation Manual

ANH-P9R

Pioneer *sound.vision.soul*

ENGLISH

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Before You Start

The screens shown in the examples may differ from the actual screens.
The actual screens may be changed without notice for performance and function improvements.

Thank you for buying this Pioneer product

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

Introduction

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Important Safety Information

Before using your Navigation System, be sure to read and fully understand the following safety information:

- Read the manual before operating this Navigation System.
- This Navigation System is intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness, judgement, and care when driving.
- Do not operate this Navigation System if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations.
- Never allow others to use the system unless they have read and understood the operating instructions.
- Never use this Navigation System to route to hospitals, police stations, or similar facilities in an emergency. The map data may not include a comprehensive list of emergency service facilities.
- Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, or traffic restrictions.
- Traffic restrictions and advisories currently in force should always take precedence over guidance given by this product. Always obey current traffic restrictions, even if this product provides contrary advice.
- Failure to input correct information about the local time may result in the product providing improper routing and guidance instructions.
- Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles.
- The data encoded in the disc provided with this product is the intellectual property of the provider, and the provider is responsible for such content.
- As with any accessory in your vehicle's interior, you should not allow this Navigation System to divert your attention from the safe operation of your vehicle. If you experience difficulty in operating the system or reading the display, please make adjustments while safely parked.

ENGLISH

Before You Start

About this unit

This product complies with the EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

- This navigation does not work correctly in the areas other than Europe.
- The radio tuner frequencies on this unit are allocated for use in Western Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in improper reception. The RDS function operates only in areas with FM stations broadcasting RDS signals.

About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this unit. It is especially important that you read and observe precautions on this page and in other sections.

Precautions

- A **CLASS 1 LASER PRODUCT** label is affixed to the bottom of this unit.



- The Pioneer CarStereo-Pass is for use only in Germany.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

In the case an auto antenna is installed, either turn off the ignition switch or detach the front panel to put away the antenna.

In case of trouble

Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.

Before You Start

Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound.
- You can turn off the warning tone. See "Setting the warning tone" on page 50.

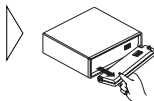
Important

- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

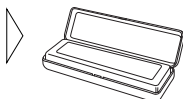
Removing the front panel

1. Press **OPEN** to open the front panel.
2. Grip the left side of the front panel and pull it gently outward.

Take care not to grip it tightly or drop it.

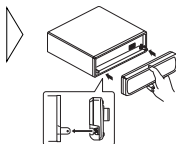


3. Put the front panel into the protective case provided for safe keeping.



Attaching the front panel

- Replace the front panel by holding it upright to this unit and clipping it securely into the mounting hooks.



Resetting the Microprocessor

When the ignition switch is turned OFF, pressing **RESET** lets you reset the microprocessor.

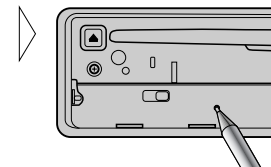
Press **RESET** in the following cases.

- When this unit fails to operate correctly.
- When strange (incorrect) messages appear on the display.

1. Turn the ignition switch OFF.

2. Press **RESET**.

Use a pen tip or other pointed instrument.



Notes

- When using with a Pioneer Navigation System, if you press **RESET**, be sure the ACC OFF is selected. If ACC ON is selected, correct operation may not be possible even if you press **RESET**.
- After completing connections or when you want to erase all memorized settings or return the unit to its initial (factory) settings, switch your engine ON or set the ignition switch to ACC ON before pressing **RESET**.

Before You Start

About the demo mode

This product features two demonstration modes. One is the reverse mode, the other is the feature demo mode.

Reverse mode

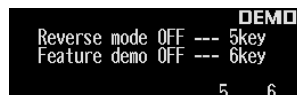
If you do not perform an operation within about 30 seconds, screen indications start to reverse, and then continue reversing every 10 seconds. Pressing 5 numbered button when power to this product is switched off while the ignition switch is set to ACC or ON cancels the reverse mode. Press 5 numbered button again to start the reverse mode.

Feature demo

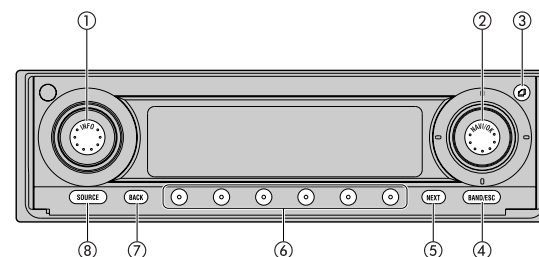
The feature demo automatically starts when power to this product is switched off while the ignition switch is set to ACC or ON. Pressing 6 numbered button during feature demo operation cancels the feature demo mode. Press 6 numbered button again to start the feature mode. Remember that if the feature demo continues operating when the car engine is switched off, it may drain battery power.

Notes

- You cannot cancel a demo mode when the front panel is open.
- The red lead (ACC) of this product should be connected to a terminal coupled with ignition switch on/off operations. If this is not done, the vehicle battery may be drained.
- When the source is off, you can check the location of "5" and "6" by turning on the feature demo.



What's what



① Rotary volume, INFO button

With the NAVIGATION function

Rotary: Lets you adjust guidance volume level.

Push: Displays information indications.

With the AUDIO function

Rotary: Lets you adjust the volume level of each source.

Push: Lets you cancel each function during operation.

② Rotary stick, NAVI/OK button

With the NAVIGATION function

Rotary: Lets you select an item.

◀/▶/▼/▲: Lets you select an item.

Push: Lets you enter a selected item and switch functions ON/OFF.

With the AUDIO function

Rotary: Lets you manually adjust.

◀/▶/▼/▲: Lets you manually adjust.

Push: Switches to the main navigation display.

③ OPEN button

Press to open the front panel.

④ BAND/ESC button

Press to select among three FM or MW/LW bands and cancel the control mode of functions.

⑤ NEXT button

Press **NEXT** to switch through the functions of the multi-function buttons.

⑥ Multifunction buttons

Press to select functions.

⑦ BACK button

Pressing **BACK** cancels the current menu or mode and returns to the previously selected menu or mode.

⑧ SOURCE button

With the NAVIGATION function

Switches to the main audio display.

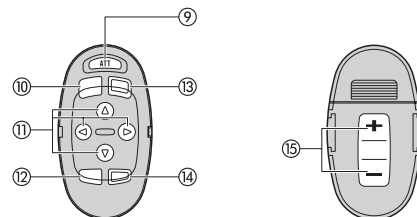
With the AUDIO function

This unit is switched on by selecting a source. Press to cycle through all of the available sources.

Before You Start

Optional remote control

The steering remote control CD-SR100 is sold separately. Operation is the same as when using the button on the head unit. See the explanation of the head unit about the operation of each button with the exception of **ATT**, which is explained below.



⑨ ATT button

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

⑩ BAND button

⑪ ▲/▼/◀/▶ buttons

⑫ FUNCTION button

⑬ SOURCE button

⑭ AUDIO button

⑮ VOLUME button

Note

- Navigation operations of the ANH-P9R cannot be performed even if the CD-SR100 is switched to the navigation mode.

Basic Operation

Turning a source on or off

You can select the source you want to listen to. To switch to built-in CD player, load a CD in this product. (Refer to "Basic operation" on page 34.)

1. Press **SOURCE** to select the desired source (e.g., tuner).

Press **SOURCE** repeatedly to switch between the following sources:



Built-in CD player – TV tuner – Tuner – DAB tuner – Multi-CD player – External unit 1 – External unit 2 – AUX

2. Raise or lower the volume.

Rolling the **VOLUME** changes the volume level.



- Roll clockwise to raise the volume level.
- Roll counterclockwise to lower the volume level.

3. Press and hold **SOURCE** to turn the source off.

Notes

- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this product. Two external units can be controlled by this product, although "External" is displayed whether you select external unit 1 or external unit 2. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this product.
- In the following cases, the sound source will not change:
 - * When no product corresponding to the source is connected to this product.
 - * When no audio disc is set in this product.
 - * When no magazine is set in the multi-CD player.
 - * When AUX (auxiliary setting) is set to off. (Refer to page 49.)
- When this product's blue/white lead is connected to the car's auto-antenna relay control terminal, the car's auto-antenna extends when this product's source is switched on.

Basic Operation

Using navigation and SOURCES simultaneously

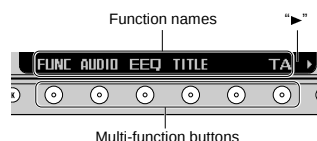
If SOURCE is pressed after having set the destination during navigation, the SOURCE display and navigation information are displayed simultaneously.



An announcement is made by the guide audio as necessary. In the case the name of the course changes, although the display will switch to the navigation display, it will automatically return to the SOURCE display.

SOFT KEY operation

SOFT KEY operation means that the function of a button changes as indicated on the display. The multifunction buttons provide SOFT KEY operation; the functions performed by the buttons change according to the function or setting that has been selected.



Important

- In this manual, for operations using the multifunction buttons the function displayed is used as the name of the function button.

Switching the function of the multifunction buttons

The "▶" indicator shows that the multifunction buttons have functions other than those currently displayed. When this indicator is visible, press NEXT to switch through the functions of the multifunction buttons.

- Press NEXT to display the desired functions (e.g., built-in CD player).

Press NEXT repeatedly to switch between the following functions:



Notes

- The number of functions or displays switched through will differ according to the source or menu selected.
- When no function is indicated for a button, that button is not currently active.

Example of multi-function button operation

Here the "random play" function of the built-in CD player is used as an example to illustrate operation of the multifunction buttons.

1. Press NEXT to display FUNC.

Press NEXT repeatedly until "FUNC" appears.



2. Press FUNC to enter the function menu.

With the switch to the function menu, the functions of the multifunction buttons also change simultaneously.



3. Press RDM to select the random mode.



4. Press RDM to turn random play on.



The light illuminates.

- Press RDM again to turn random play off. The light goes off.

5. Press BACK to exit the function menu.

When the function menu is exited, the functions of the multifunction buttons also change simultaneously.

Notes

- You can also turn random play on or off by pressing ▲ or ▼ in the random mode.
- If you do not operate the function within about 30 seconds, the display is automatically returned.

Basic Operation

The difference between the BAND/ESC button and the BACK button

BAND/ESC button

Pressing **BAND/ESC** immediately cancels the current menu or mode, and returns to the basic displays.

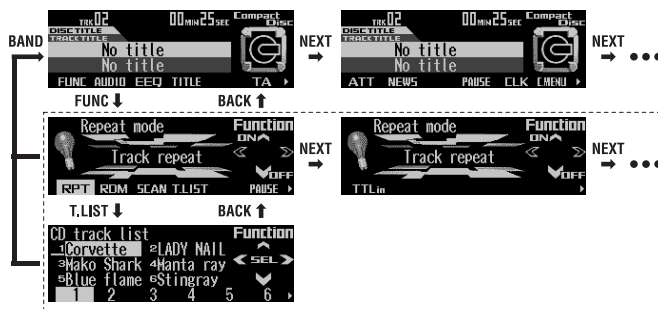
Note

- When the source is the Tuner, TV tuner or DAB tuner and no menu or mode is selected, pressing **BAND/ESC** has the effect of switching bands.

BACK button

Pressing **BACK** cancels the current menu or mode and returns to the previously selected menu or mode.

Display example (e.g., built-in CD player)



Key guidance indicator

This product's display features key guidance indicators. These light to indicate which of the $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$ buttons you can use. When you're in the function menu, audio menu or the other menus, they also make it easy to see which $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$ buttons you can use to switch functions on/off, switch repeat selections and perform other operations.



Key guidance indicators

Note

- In this manual, operation for each mode is given mainly in terms of the multifunction buttons. However, in each mode, when the key guidance indicators are lit it is also possible to use $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$ to operate the mode.

Navigation

What is navigation?

The term "navigation" (lat. navigare = to travel by sea) is generally understood to mean the location of a vehicle, the determination of the direction and distance from the desired destination and the required route. Stars, prominent landmarks, compasses and satellites etc. are used as navigation tools.

With the Pioneer ANH-P9R, the location is determined via the GPS receiver (GPS = Global Positioning System). The direction and distance from the destination is determined using a digital street map, a navigation computer and sensors. A speedometer and reverse signal are additionally used to calculate the route.

For safety reasons, route guidance follows predominantly in spoken form supported by a direction indicator on the display.

Safety instructions

- The requirements of the Road Traffic Regulations (RTR) apply.
- Observation of traffic signs and local traffic regulations always takes priority.
- Traffic guidance is restricted to passenger vehicles. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not taken into account.
- The destination must only be entered when the vehicle is stationary.

Digitised area

The navigation CD provided contains a digitised street map.

Motorways, federal and regional roads, as well as district roads are detailed in this street map. Larger cities and boroughs are completely covered. The regional and unclassified roads or access roads and the town centre for smaller towns and boroughs are included.

One way streets, pedestrian zones, turn bans and other traffic regulations are taken into account as far as possible. There may be discrepancies between the data on the navigation CD and the actual local situation, due to permanent changes to road systems and their traffic regulations.

General notes

- Radio or CD operation continues during navigation operation. The distance to be covered before the next announcement and the estimated time of arrival are always displayed at the right of the display.
- The unit can be switched to "AUDIO" by pressing the **SOURCE** button. The navigation menu is automatically displayed when navigation announcements are given.
- When entering the address, only those letters, digits and symbols which are relevant for the address are displayed. The entries are automatically completed. Spaces (e.g. in Bad Abbach) must be entered using the underline symbol. Letters, numbers and symbols can be selected via the rotary stick and multifunction buttons 1 to 2. The scroll marks ▲ and ▼ indicate a selection list which can be scrolled through using the rotary stick. Selection can also be made pressing the **NAVI/OK** button, as described later in this Operation Manual.
- **BACK** button quits the current menu and displays the previous menu.
- The route is recalculated by the system if deviation from the route is made.
- Press the **VOICE** button to hear the current navigation announcement.
- During the navigation announcement, adjustment can be made to the volume using the rotary volume (see page 47).
- By briefly pressing the **VOICE** button, additional information can be requested during route guidance or the current position when route guidance is not active. See "Information during route guidance" on page 23.
- The current navigation announcement is interrupted by pressing the **VOICE** button.
- If the **VOICE** button is pressed for longer than 2 seconds during a navigation announcement, the navigation announcement switches off and route guidance continues via display only. By briefly pressing the **VOICE** button, the navigation announcements are switched on again.
- The scroll marks ▲ and ▼ indicate a selection list which can be scrolled through using the rotary stick. Each entry in the list shown in capital letters can be selected by pressing the **NAVI/OK** button.

Navigation

Before using navigation

Before using the navigation, perform calibration and language definition referring to the Installation Manual.

Selecting navigation

These are the basic steps necessary to operate the navigation. More advanced navigation operation is explained starting on this page.

- **Press the NAVI/OK button.**

- The navigation CD must be loaded when starting navigation operation for the first time.
If the navigation system has not yet been calibrated, a calibration journey is prompted (see Installation manual).

NAVIGATION IS BEING ACTIVATED!
PLEASE OBSERVE RTR

Notes

- Map data is on the navigation CD.
- A navigation CD with the data for the destination country is required for navigation operation.
- The navigation CD must be inserted to start the route calculation. During the calculation, the prompt  flashes on the display. Once the calculation has been completed, the prompt  extinguishes, the navigation CD can be removed and an audio CD can be inserted.
- When entering destinations, driving off should be delayed until the prompt  disappears.

Main navigation menu

Selection form

DEST. MEMORY,
DESTINATION,
P.O.I.,
LAST DESTINATIONS,



can be made by turning the rotary stick, and confirmed by pressing the NAVI/OK button.

- **DEST. MEMORY**

contains destinations which have been stored previously. See "Destination memory" on page 25.

- **DESTINATION**

accesses the entry menu for the destination. See "Entering destination" on this page.

- **P.O.I.**

Menu for the selection of special local and interregional destinations and special destinations nearby. Special destinations are e.g. petrol stations, airports or hospitals. See "Special destinations" on page 25.

- **LAST DESTINATIONS**

A list of the last 50 destinations is displayed. The desired destination can be selected using the rotary stick. Before confirming with the rotary stick, details of the destination can be requested by pressing the **VOICE** button. Stopovers are not stored as last destinations.

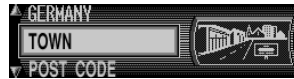
Navigation

Entering destination

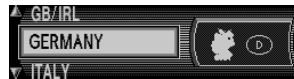
Select "DESTINATION" in the main navigation menu using the rotary stick and press to confirm.

Selecting the country

If your destination lies in another country, select the country (ex. "GERMANY") using the rotary stick and press to confirm.



Select the country using the rotary stick and press the **NAVI/OK** button to confirm.



Note

- We recommend the selection of a stopover (page 19) at the halfway point to the destination.

Entering the destination

The last location entered is displayed.

If you want to enter a destination in the displayed location, you can select "ROAD" (refer to page 15) or "CENTRE" (refer to page 15) immediately.



If your destination lies in another location, select the location using the rotary stick and press to confirm.

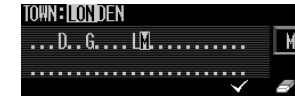
Select the letters one after the other by turning the rotary stick and press the **NAVI/OK** button to confirm. The enlarged selected letter appears at the right of the display.



Using the multifunction button  the last confirmed letter is deleted.

The complete entry is deleted if the multifunction button  is pressed for more than 2 seconds.

Letters which are already entered are displayed inversely. For the purpose of support, the existing entry is displayed at the next place-name to be reached. The unit offers only the possible remaining letters for selection. If no other entries are available, the unit completes the place-name automatically.



To accept the entry, press and hold the **NAVI/OK** button for more than 2 seconds or select the small check  and briefly press the **NAVI/OK** button.

If the complete place-name was previously entered or was automatically completed, the program switches to either place-distinguishing list or to road or centre entry.

If no roads and only the centre can be selected in the location entered, the program switches directly to route menu.

If an incomplete location entry was confirmed, the place selection list is displayed.

The place nearest to the entry appears in capital letters in the place selection list.



The scroll marks indicate that more places are available for selection in alphabetical order.

Select by turning the rotary stick and confirm by pressing the **NAVI/OK** button. (See "General notes" on page 12.)

If the entry is unequivocal, the program switches to road or centre entry. If no roads and only the centre can be selected in the location entered, the program switches directly to route menu.

The place-distinguishing list is displayed if the selection is ambiguous.

Select the required place using the rotary stick and press the **NAVI/OK** button to confirm.



The program switches to road or centre entry.

If no roads and only the centre can be selected in the location entered, the program switches directly to route menu.

Navigation

Entering the destination road

Using the rotary stick, select "ROAD" and press the NAVI/OK button to confirm.



Select the letters one after the other by turning the rotary stick and press the NAVI/OK button to confirm. The enlarged selected letter appears at the right of the display.



Using the multifunction button  the last confirmed letter is deleted. The complete entry is deleted if the multifunction button  is pressed for more than 2 seconds.

Letters which are already entered are displayed inversely. For the purpose of support, the existing entry is displayed at the next road to be reached. The unit offers only the possible remaining letters for selection.



If no other entries are available, the unit completes the road-name. To accept the entry, press and hold the rotary stick for more than 2 seconds or select the small tick  and briefly press the NAVI/OK button. If the complete road-name was previously entered or was automatically completed, the program switches to either road-distinguishing list or to route menu. If an incomplete location entry was confirmed, the road selection list is displayed.

The road nearest to the entry appears in capital letters in the road selection list. The scroll marks indicate that more roads are available for selection in alphabetical order.



Select the road by turning the rotary stick and press the NAVI/OK button to confirm. If the entry is unequivocal, the program switches to route menu. The road-distinguishing list is displayed if the selection is ambiguous.

Select the required place using the rotary stick and press the NAVI/OK button to confirm.



The program switches to route menu.

Entering the destination centre

Using the rotary stick, select "CENTRE" and press the NAVI/OK button to confirm.



If the place selected only has one centre, the program switches immediately to route menu.

If the number of centres is less than 10, the centre list is displayed.

Select the centre by turning the rotary stick and press the NAVI/OK button to confirm.



If the number of centres is greater than 9, the program switches to centre entry.

Select the letters one after the other by turning the rotary stick and press the NAVI/OK button to confirm. The enlarged selected letter appears at the right of the display.



Using the multifunction button  the last confirmed letter is deleted. The complete entry is deleted if the multifunction button  is pressed for more than 2 seconds.

Navigation

Letters which are already entered are displayed inversely. For the purpose of support, the existing entry is displayed at the next centre to be reached. The unit offers only the possible remaining letters for selection. If no other entries are available, the unit completes the centre-name.



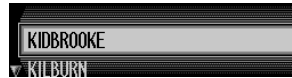
To accept the entry, press and hold the rotary stick for more than 2 seconds or select the small tick  and briefly press the **NAV/OK** button.

If the complete centre-name was previously entered or was automatically completed, the program switches to route menu.

The program switches to the centre list if the selection is ambiguous.

The centre nearest to the entry appears in capital letters in the centre list.

The scroll mark indicates that more centres are available for selection in alphabetical order.



Select the centre by turning the rotary stick and press the **NAV/OK** button to confirm.

The program switches to the route menu.

Note

- A list of possible centres is displayed immediately by pressing the **NAV/OK** button for more than 2 seconds without having selected any letters.

Entering the POST CODE for the destination road

Using the rotary stick, select "POST CODE" in the route menu and press to confirm.

Using the rotary stick, enter the "POST CODE" for the destination road and press for more than 2 seconds to confirm the entry. To confirm, the small check  can also be selected and the rotary stick briefly pressed.



Due to the system characteristics, route guidance continues only in the area of the "POST CODE" specified.

If the complete centre-name was previously entered or was automatically completed, the program switches to route menu. The program switches to the centre list if the selection is ambiguous.

The "POST CODE" to the entry appears in capital letters in the centre list.



The scroll mark indicates that more centres are available for selection in alphabetical order.

Select the "POST CODE" by turning the rotary stick and press the **NAV/OK** button to confirm.

The program switches to the route menu.

Navigation

Route menu

Selection from

SAVE DESTINATION,
START-FAST R., START-SHORT
R. or START-DYN. R.,
HOUSE NUMBER,
CROSSING,
ROUTE SETTINGS



can be made by turning, and confirmed by pressing the **NAVI/OK** button.

- **SAVE DESTINATION**
 accesses the entry menu for the Destination memory (page 18).
- **START-FAST R., START-SHORT R. or START-DYN. R.**
 Starts route calculation. Simultaneously, a prompt appears indicating the currently selected route option ("–SHORT R." for a short route, "–FAST R". for a fast route and "–DYN. R." for a dynamic route).
- **HOUSE NUMBER**
 The house number in the specified destination road can be entered here.
 This function is only available if this information is stored on the navigation CD.
- **CROSSING**
 An intersecting road can be defined as the destination here.
 This function is only available if this information is stored on the navigation CD.
- **ROUTE SETTINGS**
 Specifications such as quick route, short route, dynamic route, motorway, ferries and toll roads can be selected here.

Entering the house number for the destination road

Using the rotary stick, select "HOUSE NUMBER" in the route menu and press to confirm.

Using the rotary stick, enter the house number for the destination road and press for more than 2 seconds to confirm the entry. To confirm, the small tick ✓ can also be selected and the rotary stick briefly pressed.



Due to the system characteristics, route guidance continues only in the area of the house number specified.

Select "START–" to start route guidance.

Select "SAVE DESTINATION" to jump to the destination memory menu.

Select "ROUTE SETTINGS" to access the possible route settings.



Select by turning the rotary stick and press to confirm the selection.

Select the intersection for the destination road

Using the rotary stick, select "CROSSING" in the route menu and press to confirm.

Select the intersection for the destination road by turning the rotary stick and press to confirm.



Select "START–" to start route guidance.

Select "SAVE DESTINATION" to jump to the destination memory menu.

Select "ROUTE SETTINGS" to access the possible route settings.



Select by turning the rotary stick and press to confirm the selection.

Navigation

Selecting the route settings

Using the rotary stick, select "ROUTE SETTINGS" in the route menu and press to confirm.

- **FAST ROUTE**

If selected, the program calculates the shortest possible journey time.

- **SHORT ROUTE**

If selected, the program calculates the shortest possible distance.

Note

- The setting "SHORT ROUTE" is often recommended for larger cities or metropolises.

- **DYNAMIC ROUTE**

Dynamic route guidance is used to calculate the route, taking current traffic announcements into account.

Note

- If dynamic route guidance has been activated, the routes are calculated using the "fast route" setting.
Further information under "Dynamic navigation with TMC" on page 22.

- **RESTRICTIONS**

Provides options for avoiding motorways, ferries or toll roads.

Selection can be made by turning the right rotary control, and settings can be changed by pressing the NAVI/OK button.



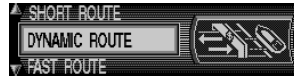
Press the control for more than 2 seconds to accept all settings and quit the menu.

Note

- Routes without motorways can only be calculated for short distances (up to 200 km).

Caution

When a route is calculated, the route and voice guidance for the route is automatically set. Also, for day or time traffic regulations, only information about traffic regulations at the time when the route was calculated is shown. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.



Storing a specified destination in the destination memory

It is not absolutely necessary to store a destination in the destination memory for route guidance. It saves repeated manual entry, if the destination is required at a later date. Select "SAVE DESTINATION" in the route menu and press the NAVI/OK button to confirm.

Any name of your choice consisting of up to 14 characters can be entered for the specified destination and then automatically stored in the destination memory after pressing the NAVI/OK button for more than 2 seconds. See "Destination memory" on page 25.



To store, the small tick ✓ can also be selected and the rotary stick briefly pressed.

If you do not wish to enter a name of your choice, press and hold the NAVI/OK button for more than 2 seconds to store the address as previously entered in the destination memory.

The last destination entered can be filled at any position by turning the rotary stick. The memory position is confirmed by briefly pressing the NAVI/OK button.

A total of 50 destinations can be stored.

For final storage in the destination memory, either route guidance must be started or the program must be switched to new destination entry by selection of "NEW DESTINATION".



Navigation

Deleting stored destinations

Select destination memory (see page 25).

Select the destination to be deleted using the rotary stick and press the **DEL** multifunction button.



Destination memory full

Occurs when the destination memory is full.

Select either "DELETE" (to jump to the destination memory in order to delete a destination) or "BACK" (to cancel saving).



Route guidance calculation

The message "Calculating route" indicates that the distance is being calculated, which may take several seconds.



After the first route guidance announcement, the prompt  flashes on the display until the route has been completely calculated. When entering a destination, driving off should be delayed until  no longer flashes.

Recalculating the route

If the current route is not followed due to road blocks, diversions, unintentional driving in the wrong direction or failing to observe the recommendations, the system immediately calculates a new route. During this recalculation, "NEW ROUTE" is displayed.



Stopover

This function enables a stopover to be entered when route guidance is active.

Entering a stopover

Press the multifunction button .



Using the rotary stick, make a selection and press to confirm.



- **DEST. MEMORY**
(see page 25) Select the stopover from the destination memory.
- **DESTINATION**
(see page 14) allows entry of a stopover with the precise specification of the address.
- **P.O.I.**
(see page 25) enables the selection of special destinations as stopovers via "LOCAL AREA", "NEAR DESTINATION" and "TOWN/COUNTRY", e.g. petrol stations or airports.

Starting route calculation to a stopover

To start route calculation to the stopover, press the **NAVI/OK** button.

The route is calculated and route guidance begins.



Note

- The  symbol is displayed inversely during route guidance to a stopover.

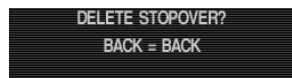
Navigation

Deleting a stopover

Press the multifunction button .

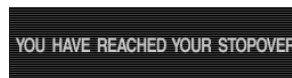


To delete the stopover, press the NAVI/OK button within 8 seconds.



Stopover reached

Route guidance to the final destination automatically starts following the message "YOU HAVE REACHED YOUR STOPOVER".



Traffic jam function

This function allows you to block the approaching route sections as from the next junction and calculate a bypass route when a traffic jam or road block is directly ahead.

Entering the length of the bypass

Press the multifunction button .



Using the rotary stick, select the length of the traffic jam and press the NAVI/OK button to confirm.



 is displayed inversely and the route is recalculated.

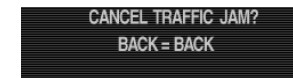


Delete block

Press the multifunction button .



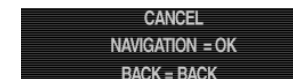
To delete a block, press the NAVI/OK button within 8 seconds.



Cancelling route guidance

Press **BACK** button.

Route guidance is cancelled by pressing the NAVI/OK button within 8 seconds.



When you press the **BACK** button, route guidance continues.

Navigation

Notes on route guidance

After entering the destination (address), the system calculates the route and announces:

"Ready to drive off".

The driving recommendations are given by voice messages and displays on the screen.

By pressing the **VOICE** button the current driving recommendation can be repeated.

If the route to be travelled is not clear, e.g. at an intersection where a change in direction is not specified, the direction of travel can be displayed by pressing the **NAVI/OK** button.

Please follow the direction indicated by the arrow.

The display appears for 8 seconds after pressing the **NAVI/OK** button.



⚠ WARNING

If a driving recommendation contradicts the applicable Road Traffic Regulations (RTR), the RTR is always valid!

For clarification, there follows a selection of examples of possible driving recommendations:

- "Please perform a U-turn if possible".

You are driving in the wrong direction and should turn back at the earliest opportunity.



- "Please turn right after 300 meters".

The arrow indicator > points to the next street into which you should turn.

The progress bar on the right illustrates the distance and the black part decreases as you approach the intersection.



- "Please follow the road".

This display tells you that you should follow the course of the road.



- "Prepare to turn left" or "Please move into the left-hand lane".

This recommendation prepares you for the next turning to be taken.

However, "move into the left-hand lane" does not mean that you should do so immediately!



Notes

- At junctions and intersections, only the end of the road which is to be passed is displayed.
- "Please leave the intersection at the third exit on the right".

This display shows you which exit (marked with the arrow) you must take at the intersection.



- "Now drive straight ahead".

At this point, you must drive straight ahead.



- "Please follow the direction arrows".

This display tells you that you are in a non-digitised street (e.g. car park, garage), which is not included in the digital street map. The arrow indicates the direction of the destination as the crow flies.



ENGLISH

Navigation

- "Keep right after 2 kilometers".
Keeping to the right means that the road forks and you should follow the relevant direction.
- "You have reached your destination".
The destination specified is reached and route guidance is terminated.



Dynamic navigation with TMC

Notes

- Dynamic route guidance is not possible in all countries.
- When any route recalculations are made with active dynamic route guidance, the navigation system may request the navigation CD (if the navigation CD is not already inserted).

What is dynamic route guidance?

Dynamic route guidance is used to calculate the route, taking current traffic announcements into account.

The traffic announcements are transmitted by a TMC radio station in addition to the radio programme and are received and analysed by the navigation system. There is no charge for receiving traffic announcements.

Note

- Traffic announcements are transmitted by radio stations, therefore we cannot accept any responsibility for the completeness and correctness of the announcements.

Dynamic route guidance

Dynamic route guidance can be started by selecting "START-DYN. R." in the route menu.

If dynamic route guidance has been activated, a continuous check is made for the presence of relevant announcements for the selected route. The route is then calculated using the "FAST ROUTE" option, while taking into account current traffic announcements. If the check determines that a traffic announcement is relevant for the route guidance, then a new route to the destination is calculated automatically by the unit.

"NEW ROUTE" appears on the display. In addition, there is a voice announcement "The route is being recalculated due to current traffic announcements". is displayed inversely.

Notes

- If no TMC radio station was found, then "CURRENTLY TMC RECEPTION IS NOT POSSIBLE" is displayed. After a short time, the unit switches back to the route guidance display.
- If a TMC station still cannot be found after 10 minutes, "FOR THE TIME BEING TMC RECEPTION IS NOT POSSIBLE" is displayed, accompanied by a brief signal tone.

Your navigation system can receive TMC information, whether a TMC station is selected or not. However, in order to guarantee optimal reception of TMC information, we recommend the selection of a TMC station.

Displaying traffic information

Current traffic announcements can be displayed in plain text.

There are several options for requesting current traffic information.

Traffic information can be requested via the multifunction buttons and in the route guidance display and, in the case of inactive route guidance, via the multifunction button in the information menu.

Route guidance display:

A list of all currently available traffic information is displayed by pressing the multifunction button .



A list of all current traffic information which is relevant for the calculated route is displayed by pressing the multifunction button .

Note

- If no traffic information is currently available, "NO TRAFFIC MESSAGES RECEIVED" is displayed.

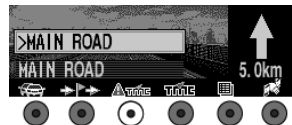
Navigation

Information menu:

For inactive route guidance, the information menu can be requested by pressing the **VOICE** button.

Press the multifunction button .

A list of currently available traffic information is displayed.



More detailed information on the individual announcements can be requested in the list of current traffic information.

The scroll marks at the left edge of the display indicate that additional traffic information is available.



A selection can be made by turning the rotary stick and pressing the **NAVI/OK** button to confirm.

After the desired traffic information has been confirmed, the information is displayed in full. A typical traffic announcement consists of:

- a motorway or road number
- approximate direction information
- detailed location and direction information
- the incident
- the cause, if known

If scroll marks are visible at the left edge of the display, then more than 3 lines are used to display the traffic information.



Pressing the **BACK** button, switches back to the list of current traffic information.

Information during route guidance

Press the **INFO** button.

The destination, the distance and the estimated time of arrival are displayed.



If a stopover has been specified, the stopover is displayed. The main destination can be displayed via the multifunction button .

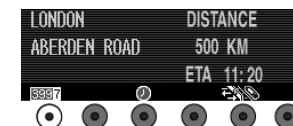


To return to route guidance, press the **INFO** button again or wait for 8 seconds.

Requesting journey duration and kilometres travelled

During route guidance, press the **INFO** button.

Press the multifunction button .



The journey duration, kilometres travelled and the average speed are displayed. Pressing the **NAVI/OK** button, returns to the route guidance display.



The information for journey duration, kilometres travelled and the average speed can also be requested as previously described, provided that the destination flag waves after the destination has been reached.

Navigation

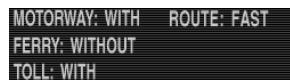
Displaying the route settings

During route guidance, press INFO button.

Press the  multifunction button.



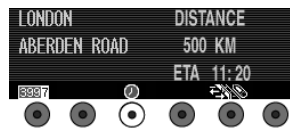
The route settings are displayed.



After 8 seconds, the system returns to the route guidance display.

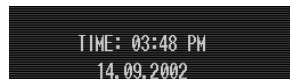
Request current time

During route guidance, press the INFO button.



Press multifunction button .

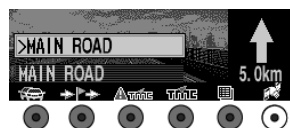
The current time is displayed. After 8 seconds, the system returns to the route guidance display.



Requesting current position

During route guidance, the current position can be requested.

Press the multifunction button .

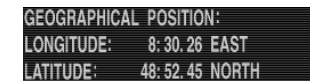


The current position with road name (if available), degrees of longitude and latitude and the number of satellites received are displayed.



By pressing the NAVI/OK button, the program returns to the route guidance display. For inactive route guidance, the information menu can be requested by pressing the INFO button.

The geographic position and number of satellites being used are displayed.



Pressing the NAVI/OK button, returns to the information menu.

Requesting the road list

During route guidance, the planned route list can be requested.

Press the multifunction button .



The current road and the road names up to the destination are displayed. The route list can be scrolled by turning the rotary stick.



By pressing the NAVI/OK button, the program returns to the route guidance display.

Notes

- After destination entry, there is a short delay until the route list is created.
- If the vehicle is "off road" at the moment of destination entry, the route list cannot be created until a stored road is reached.

Navigation

Destination memory

Using the rotary stick, select "DEST. MEMORY" in the main navigation menu and press to confirm.

The destination memory contains personally stored destinations. Once stored, manual entry of the destination is no longer necessary.



Select the destination using the rotary stick and press the **NAVI/OK** button to confirm.



Then start route guidance.

Special destinations

Menu for selecting special destinations from a specified list. Special destinations are e.g. petrol stations, airports or hospitals.

Using the rotary stick, select "P.O.I." from the main navigation menu and press to confirm.



Using the rotary stick, make a selection and confirm.



- Special destinations "LOCAL AREA"

Special destinations in the current surrounding area of the vehicle or special destinations near the destination can be selected.

Using the rotary stick, select a category and press to confirm.



Destinations are listed according to proximity. The figures in kilometers relate to the direct distance (as the crow flies) between the special destination and the current location.

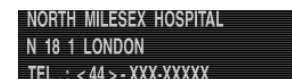


The arrows following the distance information indicate the distance as the crow flies to the relevant special destination (e.g. special destination lies in the direction of travel, special destination lies in the opposite direction to that of travel).

Select the desired destination using the rotary stick.

By pressing the **INFO** button, information on the selected destination is listed (e.g. a hospital).

Confirm the selection using the rotary stick.



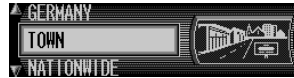
The system jumps to the route menu.

- Special destinations "TOWN" / "COUNTRY"

Special destinations of your choice in countries contained in the navigation CD can be selected.

Navigation

Using the rotary stick, select either country (ex. "GERMANY") (see page 14), "TOWN" or "NATIONWIDE" and press to confirm.



Select "TOWN"

Special destinations in a specified town can be selected.

Using the rotary stick, select the town name and press the **NAVI/OK** button to confirm.



Then select the town from the town selection list using the rotary stick and press again to confirm.

The special destinations for the selected town are displayed.



Using the rotary stick, select a category and press to confirm.

A list with special destinations is displayed or if there are more than 9 entries in the list, you will be requested to enter text.

Enter the special destination and confirm. Confirm the special destination in the list displayed by pressing the **NAVI/OK** button.



The system jumps to the route menu.

Note

- A list of possible special destinations is displayed by pressing the **NAVI/OK** button for more than 2 seconds without having selected any letters.

Select "NATIONWIDE"

Using the rotary stick, select a category and press the **NAVI/OK** button to confirm.



A list with special destinations is displayed or if there are more than 9 entries in the list, you will be requested to enter text.

Enter the special destination and confirm. Confirm the special destination in the list displayed by pressing the **NAVI/OK** button.



The system jumps to the route menu.

Note

- A list of possible special destinations is displayed by pressing the **NAVI/OK** button for more than 2 seconds without having selected any letters.

System settings

In the main navigation menu, press the **BACK** button.

The system settings menu is requested.

Selection from

TIME,
SAVE POSITION,
LANGUAGE*,
MEASURING UNIT,
ANNOUNCEMENT ETA,
ETA CALCULATION



can be made by turning, and confirmed by pressing the **NAVI/OK** button.

Navigation

- **TIME**

The internal system clock can be set to local time.

- **SAVE POSITION**

The current position can be saved and stored in the destination memory.

- **LANGUAGE***

Language setting for the navigation system.

- **MEASURING UNIT**

The display units can be changed from metres to yards.

- **ANNOUNCEMENT ETA**

Announcement of the estimated time of arrival can be switched on / off.

- **ETA CALCULATION**

This setting controls the estimated average speed when driving on a motorway.

Setting the time

In order to achieve correct navigation on routes requiring guidance under time restrictions and to calculate the estimated time of arrival, it is necessary to set the GMT time transmitted from satellites to the current time zone.

Select "TIME" in the system settings menu and confirm.



Using the multifunction button **24H** or **12H** the time can be changed from the 24 hour to the 12 hour display.



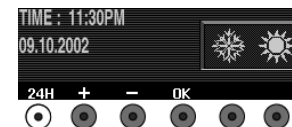
Using the multifunction buttons **+** or **-** the time is changed every half an hour.



By pressing the rotary stick or the multifunction button **OK** the time set is accepted. The program returns to the system settings menu.

Saving the position

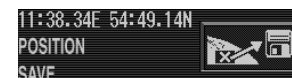
Using the multifunction button **24H** or **12H** the time can be changed from the 24 hour to the 12 hour display.



Select "SAVE POSITION" in the system settings menu and confirm.



The current position, in degrees of longitude and latitude, is displayed.



Confirm again by pressing the NAVI/OK button.

Enter the name of the position.



Press the NAVI/OK button for more than 2 seconds to confirm the name entered. To confirm, the small tick ✓ can also be marked and the rotary stick briefly pressed.

The destination memory is automatically requested (see page 25).

Select the desired position in the destination memory using the rotary stick and press the NAVI/OK button to confirm.

Navigation

Requesting the position

Request the destination memory (see page 25) and select destination using the rotary stick.

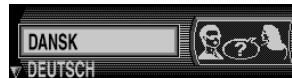
If the position is outside a digitised area, the driver is guided to the digitised route nearest to the destination. The announcement "Your destination is nearby" is given. The direction of the arrows must be followed in order to reach the destination.

Setting the language

Select "LANGUAGE*" in the system settings menu and confirm.

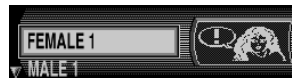


Select the language using the rotary stick. The language selection is accepted by pressing the control and the language is installed.



You can choose either a male or a female voice for certain languages.

Select the voice using the rotary stick. The voice is accepted and installed by pressing the control.



The system returns to the system settings menu after installation.

Note

- In the case you have mistakenly switched to a language you cannot read, perform operation by following the asterisk (*).

Switching announcement of the estimated time of arrival on/off

Select "ANNOUNCEMENT ETA" in the system settings menu and confirm.



ETA stands for Estimated Time of Arrival.

It is possible to select between ANNOUNCEMENT ETA "ON" and "OFF" by briefly pressing the NAVI/OK button.



Press and hold the NAVI/OK button to accept the setting. The system returns to the system settings menu.

Average speed

Select "ETA CALCULATION" in the system settings menu and confirm.



Select the estimated average speed using the rotary stick.



The estimated average speed is accepted by pressing the NAVI/OK button. The system returns to the system settings menu.

Selecting the measuring unit

Select "MEASURING UNIT" from the system settings menu and confirm.



Select the measuring unit using the rotary stick.



The measuring unit is accepted by pressing the control. The system returns to the system settings menu.

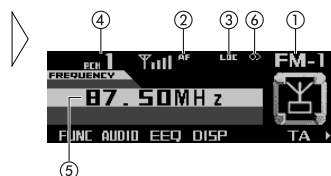
Notes

- "METRIC" indicates calculation in metres.
- "IMPERIAL" indicates calculation in yards.

Tuner

Display and indicators

- ① Band
- ② AF indicator
- ③ LOC indicator
- ④ Preset number
- ⑤ Frequency
- ⑥ Stereo indicator



Basic operation

This product's AF function can be switched on and off. AF should be switched off for normal tuning operations. (Refer to page 31.)

1. Press **SOURCE** to select the tuner.

Press **SOURCE** until "Tuner" appears.

2. Raise or lower the volume.

Rolling the VOLUME changes the volume level.

3. Press **BAND/ESC** to select the desired band.

Press **BAND/ESC** repeatedly to switch between the following bands:

FM-1 – FM-2 – FM-3 – MW/LW

4. Press **◀** or **▶** to tune in to a station.

The frequencies move up or down step by step.

- If you press and hold **◀** or **▶** for about one second and release, you can perform seek tuning. Seek tuning lets you skip broadcasting stations until a broadcast strong enough for good reception is found.
- If you press and hold **◀** or **▶**, you can skip broadcasting stations. Seek tuning starts as soon as you release the button.

Notes

- The stereo indicator "STEREO" lights when a stereo station is selected.
- After choosing your destination, press **SOURCE** and you can listen to the guide voice during navigation guidance.
- When new traffic information arrives, **TRAFFIC** appears. If desired, check the new information.

Storing and recalling broadcast stations

If you press any of the buttons 1 – 6, you can easily store up to six broadcast stations for later recall.

Storing broadcast stations

1. Press **NEXT** to display "1" – "6".
Press **NEXT** until "1" – "6" appears.
2. When you find a station that you want to store in memory, press and hold any of the buttons 1 – 6 until the preset number stops flashing.
The station is stored in memory under the selected button.

Note

- Up to 18 FM stations, six for each of the three FM bands, and six MW/LW stations can be stored in memory.

Recalling broadcast stations

1. Press **NEXT** to display "1" – "6".
Press **NEXT** until "1" – "6" appears.
2. Press any of the buttons 1 – 6 to recall a station preset under that button.

Note

- You can also use **▲** or **▼** to recall broadcast stations memorized in the buttons 1 – 6.

Tuner function menu

The tuner function menu has the following functions:

FM

BSM LOC AF PTY REG

MW/LW

BSM LOC

Notes

- "AF", "PTY" and "REG" are RDS functions for FM bands. Refer to "RDS".
- If you do not operate the function within about 30 seconds, the display is automatically returned.

Tuner

Storing the strongest broadcast stations

BSM (best stations memory) lets you automatically store the six strongest broadcast stations under the buttons 1 – 6.

1. Press **FUNC** to select the BSM mode.

2. Press **BSM** to turn the BSM on.

"Searching" appears. The six strongest broadcast stations will be stored under the buttons 1 – 6 and in order of their signal strength.

When finished, "Searching" disappears.

- To cancel the storage process before it is completed, press **BSM** again while "Searching" appears.

Tuning in strong signals

Local seek tuning lets you tune in only those broadcast stations with sufficiently strong signals for good reception.

1. Press **FUNC** and then press **LOC** to select the local mode.

2. Press **LOC** to set the local seek sensitivity.

Press **LOC** repeatedly to switch between the following settings:

FM: Local OFF – Level 1 – Level 2 – Level 3 – Level 4

MW/LW: Local OFF – Level 1 – Level 2

- When the local mode is exited except for "Local OFF" is selected, "LOC" appears on the basic display.

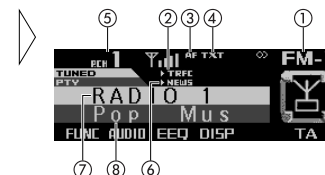
Note

- The "Level 4" setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

RDS

Display and indicators

- ① Band
- ② TRFC indicator
- ③ AF indicator
- ④ TXT indicator
- ⑤ Preset number
- ⑥ NEWS indicator
- ⑦ Program service name (or frequency)
- ⑧ PTY information



What is RDS?

RDS (Radio Data System) is a system for providing information along with FM broadcasts. This inaudible information provides such features as program service name, program type, traffic announcement standby, automatic tuning and program type tuning, intended to aid radio listeners in finding and tuning in to a desired station.

Notes

- RDS service may not be provided by all stations.
- RDS functions like AF (alternative frequencies search) and TA (traffic announcement standby) are only available when your radio is tuned in to an RDS station.
- After choosing your destination, press **SOURCE** and you can listen to the guide voice during navigation guidance.

Displaying the frequency of an RDS station

When you tune in to an RDS station, its program service name is displayed. If you want to know the frequency, perform the following steps.

- Press **DISP** to change the frequency (or PTY information) display.

Press **DISP** repeatedly to switch between the following displays:

Program service name – Frequency

Notes

- After switching displays, if you do not perform an operation within eight seconds, the display automatically returns to the program service name.
- The PTY (program type ID code) information is correlated with the list in the section "PTY list" on page 33.

RDS

Using alternative frequency (AF)

If you are listening to a broadcast and the reception becomes weak or there are other problems, this product will automatically search for a different station in the same network which is broadcasting a stronger signal.

1. Press **FUNC** and then press **AF** to select the AF mode.
2. Press **AF** to turn the AF function on.

The light illuminates.

- Press **AF** again to turn the AF function off.
- When the AF mode is exited while AF is on, "AF" appears on the basic display.

Notes

- AF tunes the receiver only to RDS stations when you use seek tuning or BSM auto memory with the AF function on.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on the FM-1 and FM-2 bands.) No preset number appears on the display if the RDS data for the station received differs from the data for the originally stored station.
- Sound may be temporarily interrupted by another program during an AF frequency search.
- When the tuner is tuned to a non-RDS station, the "AF" indicator flashes.
- The AF function can be turned on or off independently for each FM band.

Using the PI seek function

The tuner searches for another frequency broadcasting the same program. "PI Seek" appears on the display and the radio volume is muted during a PI seek. The muting is discontinued after completion of the PI seek, whether or not the PI seek has succeeded. If the PI seek is unsuccessful, the tuner returns to the previous frequency.

PI seek

If you are listening to a broadcast and the reception becomes weak or if this product fails to find a suitable alternative frequency, this product will automatically search for a different station with the same program.

Auto PI seek (for preset station)

When preset stations cannot be recalled, as when traveling long distances, this product can be set to perform PI seek during preset recall.

The default setting for auto PI seek is off.

Note

- Refer to "Switching the auto PI seek" on page 51.

Limiting stations to regional programming

When AF is used to automatically retune frequencies, the regional function limits the selection to stations broadcasting regional programs.

1. Press **FUNC** and then press **REG** to select the regional mode.
2. Press **REG** to turn the regional function on.

The light illuminates.

- Press **REG** again to turn the regional function off.

Notes

- Regional programming and regional networks are organized differently depending on the country (i.e., they may change according to the hour, state or broadcast area).
- The preset number may disappear from the display if the tuner tunes in to a regional station which differs from the originally set station.
- The regional function can be turned on or off independently for each FM band.

Receiving traffic announcements

The TA (traffic announcement standby) function lets you receive traffic announcements automatically, no matter what source you are listening to. The TA function can be activated for both a TP station (a station that broadcasts traffic information) or an enhanced other network's TP station (a station carrying information which cross-references TP stations).

Turning the TA function on or off

1. Press **◀** or **▶** to tune in to a TP or enhanced other network's TP station.

The "TRFC" indicator lights when the tuner is tuned in to a TP station or an enhanced other network's TP station.

2. Press **TA** to turn the TA function on.

The "▶TRFC" indicator lights, indicating that the tuner is waiting for traffic announcements.

- Press **TA** again when no traffic announcement is being received to turn the TA function off.

RDS

Notes

- The system switches back to the original source following traffic announcement reception.
- The TA function can be activated from sources other than the tuner if the tuner was last set to the FM band but not if it was last set to the MW/LW band.
- If the tuner was last set to FM, turning on the TA function lets you operate other tuning functions while listening to sources other than the tuner.
- If you switched the TA function on while tuned in to neither a TP nor an enhanced other network's TP station, only "T" in the "►TRFC" indicator lights.
- Only TP or enhanced other network's TP stations are tuned in during seek tuning when the "►TRFC" or "T" indicator is on.
- Only TP or enhanced other network's TP stations are stored by BSM when the "►TRFC" or "T" indicator is on.

Canceling traffic announcements

- **Press TA while a traffic announcement is being received to cancel the announcement and return to the original source.**

The announcement is canceled but the tuner remains in the TA mode until TA is pressed again.

Adjusting the TA volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

- **Turn VOLUME to adjust and set the volume during reception of a traffic announcement.**

The newly set volume is stored in memory and recalled for subsequent traffic announcements.

TP alarm

About 30 seconds after the "►TRFC" indicator turns to "T" due to a weak signal, a five second beep sounds to remind you to select another TP or enhanced other network's TP station.

- **When listening to a RDS broadcast, press ◀ or ▶ to tune in to another TP station or enhanced other network's TP station.**

In sources other than the tuner, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 (or 30)* seconds after the "►TRFC" indicator turns to "T".

* Time taken before seek begins

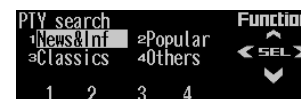
TA function ON	10 seconds
TA, AF functions ON	30 seconds

Using the PTY function

A PTY search is performed by program type as indicated in the PTY list (the program types are: News&Inf, Popular, Classics, Others). It also provides automatic tuning to emergency broadcasts (PTY alarm).

Searching the PTY

1. **Press FUNC and then press PTY to select the PTY search mode.**



2. **Press any of the buttons 1 – 4 to search the desired PTY.**

The tuner searches for a station broadcasting the desired PTY.

Notes

- The program of some stations may differ from that indicated by the transmitted PTY.
- If no station is broadcasting the type of program you searched for, "Not found" is displayed for about two seconds and then the tuner returns to the original station.
- The PTY method is wide only.
- You can also use ◀, ▶ and ▲ to select and search the desired PTY.

Setting the news program interruption

When a news program is broadcast from a PTY code news station, this product can switch from any station to the news broadcast station. When the news program ends, reception of the previous program resumes.

1. **Press NEXT to display "NEWS".**

Press NEXT until "NEWS" appears.

2. **Press NEWS to turn the news interruption on.**

The "►NEWS" or "N" indicator lights.

- Press NEWS again to turn the news interruption off.
- Press TA during news program reception to cancel the news program.

PTY alarm

PTY alarm is a special PTY code for announcements regarding emergencies such as natural disasters. When the tuner receives the radio alarm code, "ALARM" appears on the display and the volume adjusts to the TA volume. When the station stops broadcasting the emergency announcement, the system returns to the previous source.

- Press TA during announcement reception to cancel the announcement.

RDS

PTY list

General	Specific	Type of program
News & Inf	News	News
	Affairs	Current affairs
	Info	General information and advice
	Sport	Sports
	Weather	Weather reports/meteorological information
	Finance	Stock market reports, commerce, trading, etc.
Popular	Pop Mus	Popular music
	Rock Mus	Contemporary modern music
	Easy Mus	Easy listening music
	Oth Mus	Non categorized music
	Jazz	Jazz
	Country	Country music
	Nat Mus	National music
	Oldies	Oldies music, golden oldies
Classics	Folk Mus	Folk music
	L. Class	Light classical music
	Classic	Serious classical music
Others	Educate	Educational programs
	Drama	All radio plays and serials
	Culture	National or regional culture
	Science	Nature, science and technology
	Varied	Light entertainment
	Children	Children's
	Social	Social affairs
	Religion	Religion affairs or services
	Phone In	Phone in
	Touring	Travel programs, not for announcements about traffic problems
	Leisure	Hobbies and recreational activities
	Document	Documentaries

Using radio text

This tuner can display radio text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist.

Notes

- When radio text is received, the "TXT" indicator lights.
- The tuner automatically memorizes the three latest radio text broadcasts received, replacing text from the least recent reception with new text when it is received.
- If you do not perform an operation within 30 seconds, the radio text mode is canceled.

Displaying the radio text

- Press **NEXT** to display "R.TEXT".

Press **NEXT** until "R.TEXT" appears.

ATT NEWS R.TEXT CLK MENU

- Press **R.TEXT** to switch to the radio text mode.

- Press **◀** or **▶** to recall the three latest radio text broadcasts from the tuner's memory.

Pressing **◀** or **▶** switches between the four radio text data displays.

Notes

- Press **BAND/ESC** to cancel the radio text mode.
- When no radio text is currently being received, "No text" is displayed.
- If there is no radio text data stored in the tuner, **◀** or **▶** does not operate.

Storing radio text

You can store data from up to six radio text transmissions under the buttons **MEMO1** – **MEMO6**.

- Select the radio text you want to store in memory.

Refer to "Displaying the radio text" on this page.

- Press and hold any of the buttons **MEMO1** – **MEMO6** until "RT memo" appears to store the desired radio text.

The radio text is stored in memory under the selected button.

Recalling preset radio text

- Press **NEXT** to display "R.TEXT".

Press **NEXT** until "R.TEXT" appears.

- Press **R.TEXT** to switch to the radio text mode.

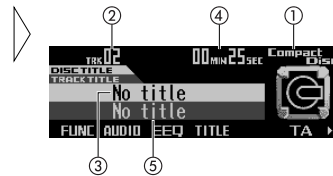
- Press any of the buttons **MEMO1** – **MEMO6** to recall the radio text preset under that button.

ENGLISH

Built-in CD Player

Display and indicators

- ① Source name
- ② Track number
- ③ Disc title
- ④ Play time
- ⑤ Track title



Basic operation

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing an 8 cm CD.

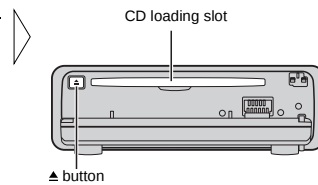
1. Press EJECT to open the front panel.

- The navigation CD must be inserted to start the route calculation. During the calculation, the prompt CD flashes on the display. Once the calculation has been completed, the prompt CD extinguishes, the navigation CD can be removed and an audio CD can be inserted.

2. Insert a CD into the CD loading slot.

Note

- To avoid a malfunction, make sure that no metal object comes into contact with the front panel is open.



3. Raise or lower the volume.

Rolling the VOLUME changes the volume level.

4. Press ◀ or ▶ to select a track.

Pressing ▶ skips to the start of the next track.

Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.

- If you press and hold ◀ or ▶, you can perform fast forward or reverse.

5. Press ▲ to eject the CD after opening the panel by pressing OPEN.

- Be sure to close the front panel after removing the CD.

WARNING

- Do not use with the front panel left open. If the front panel is left open, it may result in injury in the event of an accident.

Notes

- You can select CD as the source by pressing **SOURCE** when an audio disc is loaded in this product.
- When the front panel is open, multi-function buttons are not available.
- Do not insert anything other than a CD into the CD loading slot.
- A CD left partially inserted after ejection may incur damage or fall out.
- If a CD cannot be inserted fully or playback fails, make sure the recorded side is down. Press ▲ and check the disc for damage before reinserting it.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display. Refer to "Understanding built-in CD player error messages" on page 53.
- You can eject the CD by pressing and holding ▲ with opening the front panel when the CD loading or ejecting cannot operate properly.
- After choosing your destination, press **SOURCE** and you can listen to the guide voice during navigation guidance.
- When new traffic information arrives, **TRAFFIC** appears. If desired, check the new information.

Switching and scrolling the title

When playing a CD TEXT disc, you can switch text display such as artist name and track title.

With text longer than 24 letters, you can scroll to see the rest of the text.

1. Press TITLE to switch the title mode.

2. Press the corresponding button to display the desired title.

Button	Operation
TTL1	Displays disc title and track title.
TTL2	Displays disc title and disc artist name.
TTL3	Displays track title and track artist name.
SCROLL	Scrolls the displayed title.

Notes

- If you do not operate the function within about eight seconds, the display is automatically returned.
- You cannot use ◀ or ▶ to select a track in title mode.
- The titles are displayed up to 24 letters long.
- A CD TEXT disc is a CD featuring recorded text information such as disc title, artist name and track title.
- If certain text information is not recorded on a CD TEXT disc, "No -" (e.g., "No title") is displayed.
- If you have not input disc titles, "No title" is displayed.

Built-in CD Player

Built-in CD player function menu

The built-in CD player function menu has the following functions:



Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned. (When you select the disc title input mode (T.TLin), the display is not returned automatically.)
- "T.LIST" is displayed only when playing a CD TEXT disc.

Repeating play

Repeat play lets you hear the same track over again.

- Press **FUNC** to select the repeat mode.

- Press **RPT** to turn the repeat play on.

The light illuminates. The track currently playing will play and then repeat.

- Press **RPT** again to turn repeat play off.
- When the repeat mode is exited while repeat play is on, "T.RPT" appears on the basic display.

Note

- If you perform track search or fast forward/reverse, repeat play is automatically canceled.

Playing tracks in random order

Random play lets you play back tracks on the CD in random order.

- Press **FUNC** and then press **RDM** to select the random mode.

- Press **RDM** to turn random play on.

The light illuminates. Tracks will play in random order.

- Press **RDM** again to turn random play off.
- When the random mode is exited while random play is on, "RDM" appears on the basic display.

Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD.

- Press **FUNC** and then press **SCAN** to select the scan mode.

- Press **SCAN** to turn scan play on.

The light illuminates. The first 10 seconds of each track are played.

- When the scan mode is exited while scan play is on, "SCAN" appears on the basic display.

- When you find the desired track, press **SCAN** to turn scan play off.

The light goes off. The track will continue to play.

- If the scan mode is automatically canceled, select the scan mode again.

Note

- After scanning of a CD is finished, normal playback of the tracks will begin again.

Selecting tracks from the track title list

The track title list lets you see the list of track titles on a CD TEXT disc and select one of them for playback.

- Press **FUNC** and then press **T.LIST** to select the track title list mode.

- Press **NEXT** to display the desired track title.

Press **NEXT** until the desired track title appears.



- Press the corresponding number button to select the desired track title.

That selection will begin to play.

Notes

- You can also use **◀**, **▶** and **▲** to select and play the desired track title.
- Only when playing a CD TEXT disc, you can switch to this mode.

Built-in CD Player

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

1. Press **FUNC** and then press **PAUSE** to select the pause mode.
2. Press **PAUSE** to turn the pause on.

The light illuminates. Play of the current track pauses.

- Press **PAUSE** again to turn the pause off.
- When the pause mode is exited while pause is on, "PAUSE" is displayed in the basic display.

Note

- You can also turn pause on or off by pressing **PAUSE** in the following display.



Entering disc titles

Disc title input lets you input up to 48 CD titles up to 10 letters long into the built-in CD player. If you input a CD title, the entered title is displayed.

For details of operation, refer to "Entering disc titles" on page 39 under "Multi-CD Player".

Notes

- When playing a CD TEXT disc, if you switch to this mode, "No title input" is displayed and you cannot input the title.
- After the titles for 48 discs have been entered, the data for a new disc will overwrite the oldest one.
- If you connect a multi-CD player, you can input disc titles for up to 100 discs.

Multi-CD Player

Display and indicators

- ① Source name
- ② Disc number
- ③ Track number
- ④ Disc title
- ⑤ Play time
- ⑥ Track title



50-disc multi-CD player

Only those functions described in this manual are supported for 50-disc multi-CD players.

Basic operation

This product can control a multi-CD player, which is sold separately.

1. Press **SOURCE** to select the multi-CD player.

Press **SOURCE** until "Multi-CD" appears.

2. Raise or lower the volume.

Rolling the VOLUME changes the volume level.

3. Press **▲** or **▼** to select a disc.

A disc number for which there is no disc will be skipped.

- You can use the buttons 1 – 6 (or 7 – 12) to select a disc directly.

4. Press **◀** or **▶** to select a track.

Pressing **▶** skips to the start of the next track.

Pressing **◀** once skips to the start of the current track. Pressing again will skip to the previous track.

- If you press and hold **◀** or **▶**, you can perform fast forward or reverse.

Notes

- When the multi-CD player is performing the preparatory operations, "Ready" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, "No disc" is displayed.
- After choosing your destination, press **SOURCE** and you can listen to the guide voice during navigation guidance.

Multi-CD Player

Selecting a disc directly

You can use the buttons 1 – 6 (or 7 – 12) to select a disc directly.

1. Press NEXT to display “1” – “6” (or “7” – “12”).

Press NEXT until “1” – “6” (or “7” – “12”) appears.

2. Press any of the buttons 1 – 6 (or 7 – 12) to select a disc located at 1 to 6 (or 7 to 12).

Note

- You cannot display “7” – “12” when a 6-disc multi-CD player is connected.

Switching and scrolling the title

When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you can switch text display such as artist name and track title.

With text longer than 24 letters, you can scroll to see the rest of the text.

1. Press TITLE to switch the title mode.
2. Press the corresponding button to display the desired title.

Button	Operation
TTL1	Displays disc title and track title.
TTL2	Displays disc title and disc artist name.
TTL3	Displays track title and track artist name.
SCROLL	Scrolls the displayed title.

Notes

- If you do not operate the function within about eight seconds, the display is automatically returned.
- You cannot use ▲/▼/◀/▶ to select a disc or track in title mode.
- The titles are displayed up to 24 letters long.
- A CD TEXT disc is a CD featuring recorded text information such as disc title, artist name and track title.
- If certain text information is not recorded on a CD TEXT disc, “No –” (e.g., “No title”) is displayed.
- If you have not input disc titles, “No title” is displayed.

Multi-CD player function menu

The multi-CD player function menu has the following functions:

RPT RDM SEAN T.LIST D.LIST PAUSE ▶
TTLin COMP ITS.P ITS.M ▶

Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned. (When you select the disc title input mode (TTLin) or ITS memory mode (ITS.M), the display is not returned automatically.)
- “T.LIST” is displayed only when playing a CD TEXT disc on a CD TEXT compatible multi-CD player.

Repeating play

There are three repeat play ranges for the multi-CD player: one-track repeat, disc repeat and multi-CD player repeat.

1. Press FUNC to select the repeat mode.

2. Press RPT to select the repeat range.

Press RPT repeatedly to switch between the following repeat ranges:

Magazine repeat (multi-CD player repeat) – Track repeat (one-track repeat) – Disc repeat (disc repeat)

- When the repeat mode is exited, either “T.RPT” or “D.RPT” may appear on the basic display.
 - “T.RPT” appears while the one-track repeat is selected.
 - “D.RPT” appears while the disc repeat is selected.

Notes

- If you select other discs during repeat play, the repeat range changes to multi-CD player repeat.
- If you perform track search or fast forward/reverse during one-track repeat, the repeat range changes to disc repeat.

Multi-CD Player

Playing tracks in random order

Random play lets you play back tracks in random order within the repeat range: multi-CD player repeat and disc repeat.

1. Select the repeat range.

Refer to "Repeating play" on page 37.

2. Press FUNC and then press RDM to select the random mode.

3. Press RDM to turn random play on.

The light illuminates. Tracks will play in random order within the selected repeat range.

- Press **RDM** again to turn random play off.
- When the random mode is exited while random play is on, "RDM" appears on the basic display.

Note

- If you turn random play on during one-track repeat, the repeat range changes to disc repeat.

Scanning CDs and tracks

When you select disc repeat, scan play lets you hear the first 10 seconds of each track on the selected CD. When you select multi-CD player repeat, scan play lets you hear the first 10 seconds of the first track on each CD.

1. Select the repeat range.

Refer to "Repeating play" on page 37.

2. Press FUNC and then press SCAN to select the scan mode.

3. Press SCAN to turn scan play on.

The light illuminates. The first 10 seconds of each track of the current disc (or the first track of each disc) are played.

- When the scan mode is exited while scan play is on, "SCAN" appears on the basic display.

4. When you find the desired track (or disc), press SCAN to turn scan play off.

The light goes off. The track (or disc) will continue to play.

- If the scan mode is automatically canceled, select the scan mode again.

Notes

- After track or disc scanning is finished, normal playback of the tracks will begin again.
- If you turn scan play on during one-track repeat, the repeat range changes to disc repeat.

Selecting tracks from the track title list

The track title list lets you see the list of track titles on a CD TEXT disc and select one of them for playback.

1. Press FUNC and then press T.LIST to select the track title list mode.

2. Press NEXT to display the desired track title.

Press **NEXT** until the desired track title appears.

CD track list						Function
1	Corvette	2	LADY NAIL	3	Mako Shark	4 Manta ray
5	Blue flame	6	Stingray			
1	2	3	4	5	6	

3. Press the corresponding number button to select the desired track title.

That selection will begin to play.

Notes

- You can also use **◀**, **▶** and **▲** to select and play the desired track title.
- Only when playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you can switch to this mode.

Selecting discs from the disc title list

The disc title list lets you see the list of disc titles and select one of them for playback. Displayed disc titles are those which have been entered into the multi-CD player or recorded on a CD TEXT disc.

1. Press FUNC and then press D.LIST to select the disc title list mode.

2. Press NEXT to switch between "1" – "6" and "7" – "12".

CD disc list						Function
1	THE BEST	2	No disc	3	No D.title	4 No D.title
5	My favorit	6				
1	2	3	4	5	6	

3. Press any of the buttons 1 – 6 (or 7 – 12) to select the desired disc title.

That selection will begin to play.

Notes

- You can also use **◀**, **▶** and **▲** to select and play the desired disc title.
- "No D.Title" is displayed for a disc whose title has not been input.
- "No disc" is displayed next to the disc number when no disc is set in the magazine.
- You cannot display "7" – "12" when a 6-disc multi-CD player is connected.

Multi-CD Player

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

1. Press **FUNC** and then press **PAUSE** to select the pause mode.
2. Press **PAUSE** to turn pause on.

The light illuminates. Play of the current track pauses.

- Press **PAUSE** again to turn pause off.
- When the pause mode is exited while pause is on, "PAUSE" is displayed in the basic display.

Note

- You can also turn pause on or off by pressing **PAUSE** in the following display.



Entering disc titles

Disc title input lets you input up to 100 CD titles up to 10 letters long (with ITS memory) into the multi-CD player. If you input a CD title, the entered title is displayed.

1. Press **▲** or **▼** to play a disc you want to enter the title.
2. Press **FUNC** and **NEXT** and then press **TTLin** to select the disc title input mode.
3. Press **ABC** to switch the character mode.

Press **ABC** repeatedly to switch between the following modes:

Alphabet (upper case), numbers and symbols – Alphabet (lower case) – European letters, such as those with accents (e.g. á, â, ã, ç)

- Press **012** to switch to the numbers and symbols mode.

4. Press **▲** or **▼** to select letters, numbers and symbols.



- To insert a space, select the flashing cursor " _ ".

5. Press **▶** to move the cursor to the next character position.

- Press **◀** to move backwards in the display.

6. Press **▶** to move the cursor to the last position and then press **▶** one more time after entering the title.

7. Press **BAND/ESC** to cancel the disc title input mode.

Notes

- When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, if you switch to this mode, "Can't input" is displayed and you cannot input the title.
- Titles remain in memory even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- After the titles for 100 discs have been entered, the data for a new disc will overwrite the oldest one.

Using compression and dynamic bass emphasis

Using the **COMP** (compression) and **DBE** (dynamic bass emphasis) functions enables multi-CD player sound quality adjustment. Each of the functions enables two-step adjustment.

The **COMP** function adjusts imbalances between loud and subdued sounds at higher volumes.

DBE boosts bass levels to give a fuller sound.

1. Press **FUNC** and **NEXT** and then press **COMP** to select the compression and dynamic bass emphasis mode.

2. Press **COMP** to select the desired setting.

Press **COMP** repeatedly to switch between the following settings:

COMP OFF – **COMP 1** – **COMP 2** – **COMP OFF** – **DBE 1** – **DBE 2**

- When this mode is exited except for "COMP OFF" is selected, "COMP" appears on the basic display.

Note

- If the multi-CD player does not support these functions, "No COMP" is displayed when you attempt to select it.

Multi-CD Player

Using ITS memory

The ITS (instant track selection) lets you make a program of favorite tracks from those in the multi-CD player magazine. After you have added your favorite tracks to the ITS memory, you can turn on ITS play and play just those selections.

Programming tracks in ITS memory

You can use ITS to enter and playback up to 99 tracks per disc, up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

1. Press **▲** or **▼** to play the CD you want to program.
2. Press **FUNC** and **NEXT** and then press **ITS.M** to select the ITS memory mode.
3. Press **◀** or **▶** to select the desired track.
4. Press **MEMO** to store the currently playing track in the ITS memory.
"Memory complete" is displayed briefly and the currently playing track is added to ITS memory.
5. Press **BAND/ESC** to cancel the ITS memory mode.

Notes

- In this mode, you can also use **▲** to store the currently playing track in the ITS memory.
- After 100 discs have been programmed, the data for a new disc will overwrite the oldest one.

Playback from ITS memory

ITS play lets you listen to the tracks that you have entered into ITS memory. When you turn on ITS play, tracks from ITS memory in the multi-CD player will begin to play.

1. **Select the repeat range.**
Refer to "Repeating play" on page 37.
2. Press **FUNC** and **NEXT** and then press **ITS.P** to select the ITS play mode.
3. Press **ITS.P** to turn ITS play on.
The light illuminates. Playback begins of those tracks from ITS memory within the selected repeat range: multi-CD player repeat or disc repeat.
 - Press **ITS.P** again to turn ITS play off.
 - When the ITS play mode is exited while ITS play is on, "ITS" appears on the basic display.

Note

- If no track in the current play range is programmed for ITS play, "ITS empty" is displayed.

Erasing a track from ITS memory

When you want to erase a track from ITS memory, you can do so when ITS play is on.

1. Turn ITS play on while playing a CD from which you want to erase a track program from ITS memory.
Refer to "Playback from ITS memory" on this page.
2. Press **FUNC** and **NEXT** and then press **ITS.M** to select the ITS memory mode.
3. Press **◀** or **▶** to select the desired track.
4. Press **CLEAR** to erase the currently playing track from ITS memory.
The currently playing track is erased from ITS memory and playback of the next track from ITS memory begins. If there are no tracks from ITS memory in the current play range, "ITS empty" is displayed and normal play resumes.
5. Press **BAND/ESC** to cancel the ITS memory mode.

Note

- In this mode, you can also use **▼** to erase the currently playing track from ITS memory.

Erasing a CD from ITS memory

When you want to erase all tracks of a CD from ITS memory, you can do so when ITS play is off.

1. Press **▲** or **▼** to select the CD you want to erase from ITS memory.
If ITS play is on, turn ITS play off. Refer to "Playback from ITS memory" on this page.
2. Press **FUNC** and **NEXT** and then press **ITS.M** to select the ITS memory mode.
3. Press **CLEAR** to erase all tracks on the currently playing CD from ITS memory.
"Memory deleted" is displayed briefly and all tracks on the currently playing CD are erased from ITS memory.
4. Press **BAND/ESC** to cancel the ITS memory mode.

Note

- In this mode, you can also use **▼** to erase all tracks on the currently playing CD from ITS memory.

DAB Tuner

Changing a band

- Press **BAND/ESC** to select the desired band.
Press **BAND/ESC** repeatedly to switch between the following bands:
DAB 1 – DAB 2 – DAB 3

Switching the display

- Press **DISP** to select the desired display.
Press **DISP** repeatedly to switch between the following displays:
SERVICE (service label) and COMPONENT (service component label) – D.TEXT (dynamic label segment head line) – SERVICE (service label) and ENSEMBLE (ensemble label) – SERVICE (service label) and PTY (PTY label)

Note

- With a service component that has no service component label or dynamic label, the display is blank when you switch to service component label and dynamic label.

Switching the road traffic flash and transport flash on or off

- Press **TA** to turn the road traffic flash and transport flash on.
The "►TRFC" or "T" indicator lights.
- Press **TA** again to turn the road traffic flash and transport flash off.

Canceling road traffic flash and transport flash interruptions part way through

- To cancel a road traffic flash or transport flash interruption and return to the original source, press the **TA** during an announcement interruption.

Dynamic label function

Displaying dynamic labels

1. Press **NEXT** to display "D.TEXT".
Press **NEXT** until "D.TEXT" appears.
2. Press **D.TEXT** to switch to the dynamic label mode.
3. Press **◀** or **▶** to recall the three latest dynamic label broadcasts from the tuner's memory.
Pressing **◀** or **▶** switches between the four dynamic label data displays.

Notes

- Press **BAND/ESC** to cancel the dynamic label mode.
- When no dynamic label is currently being received, "No text" is displayed.
- If there is no dynamic label data stored in the tuner, **◀/▶** do not operate.
- If you do not operate the function within about 60 seconds, the display is automatically returned.

Storing a dynamic label

You can store data from up to six dynamic label transmissions under the buttons **MEMO1** – **MEMO6**.

1. Select the dynamic label you want to store in memory.
Refer to "Displaying dynamic labels" on this page.
2. Press and hold any of the buttons **MEMO1** – **MEMO6** until "DAB memo" appears to store the desired dynamic label.
The dynamic label is stored in memory under the selected button.

Recalling a dynamic label

1. Press **NEXT** to display "D.TEXT".
Press **NEXT** until "D.TEXT" appears.
2. Press **D.TEXT** to switch to the dynamic label mode.
3. Press any of the buttons **MEMO1** – **MEMO6** to recall the dynamic label preset under that button.

DAB Tuner

DAB tuner function menu

The DAB tuner function menu has the following functions:

AS	chLIST	S.LIST	PTY	P/2ND	SF
①	②	③	④	⑤	⑥

① **AS (announcement support)**

For operation of the announcement support, refer to "Setting the announcement support interruption" on this page.

② **chLIST (preset service list)**

For operation of the preset service list, refer to "Selecting services from the preset service list" on this page.

③ **S.LIST (available service list)**

For operation of the available service list, refer to "Selecting services from the available service list" on this page.

④ **PTY (available PTY search)**

For operation of the available PTY search, refer to "Searching the available PTY" on page 44.

⑤ **P/2ND (primary/secondary)**

Press **P/2ND** repeatedly to switch to the next service component.

⑥ **SF (service follow)**

Press **SF** repeatedly to turn SF on or off.

Note

- If you do not operate the function within about 30 seconds, the display is automatically returned.

Setting the announcement support interruption

- Press **FUNC** and then press **AS** to select the announcement support mode.
- Press the corresponding button to turn the desired announcement support on.

Button	Announcement
NEWS	News flash
WTHR	Area weather flash
ANNC	Announcement

Note

- You can also use ◀, ▶ and ▲ to select and turn on the desired announcement.

Selecting services from the preset service list

- Press **FUNC** and then press **chLIST** to select the preset service list mode.
- Press any of the buttons 1 – 6 to recall the desired service.

DAB1 P.CH List				Function	
BAYERN	2	ROCK ANT	◀	SEL	▶
BAYERN	3	ANTENNE	◀		▶
BAYERN	4	BR MOBIL	◀		▶
1	2	3	4	5	6

Note

- You can also use ◀, ▶ and ▲ to select and recall the desired service.

Selecting services from the available service list

The available service list lets you see the list of available services and select one of them to receive, if the currently received ensemble has multiple services.

- Press **FUNC** and then press **S.LIST** to select the available service list mode.
- Press ◀ or ▶ to select the desired service.

Available Service List				Function	
BAYERN	2	ROCK ANT	◀	SEL	▶
BAYERN	3	ANTENNE	◀		▶
BAYERN	4	BR MOBIL	◀		▶
AS	chLIST	S.LIST	PTY	P/2ND	SF

- Press ▲ to receive the selected service.

DAB Tuner

Searching the available PTY

Available PTY search lets you see the list of available PTYs that is in the current ensemble and select one of them to receive.

- Available PTY search function is different from PTY search function. With this product, you can operate only the available PTY search.

1. Press **FUNC** and then press **PTY** to select the available PTY search mode.

2. Press **◀** or **▶** to select the desired PTY.



3. Press **▲** to start the PTY search.

DAB receives the desired PTY service.

Notes

- The PTY method displayed is narrow. The wide method cannot be selected when using DAB as the source. (Refer to page 33.)
- If there is no available PTY in the current ensemble, you cannot switch to the available PTY search mode.
- If no service broadcasting the selected programming type is found, "Not found" is displayed briefly, and the DAB tuner returns to the previous service.

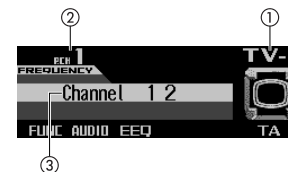
TV Tuner

The following explains how to use this product to control a TV tuner, which is sold separately. For details of TV tuner-specific operation/features, see your TV tuner's manual.

- With this product, you can operate preset channel list as one additional function.

Display and indicators

- Band
- Preset number
- Channel



Basic operation

1. Press **SOURCE** to select the TV tuner.

Press **SOURCE** until "Television" appears.

2. Raise or lower the volume.

Rolling the VOLUME changes the volume level.

3. Press **◀** or **▶** to tune in to a station.

- If you press and hold **◀** or **▶** for about one second and then release, you can perform seek tuning.

Storing and recalling broadcast stations

If you press any of the buttons 1 – 6 (or 7 – 12), you can easily store up to 12 broadcast stations for later recall.

Storing broadcast stations

1. Press **NEXT** to display "1" – "6" (or "7" – "12").

Press **NEXT** until "1" – "6" (or "7" – "12") appears.

TV Tuner

2. When you find a station that you want to store in memory, press and hold any of the buttons 1 – 6 (or 7 – 12) until the preset number stops flashing.

The station is stored in memory under the selected button.

Notes

- Up to 12 stations can be memorized in one band.
- This product allows you to store and recall directly using preset channels 7 – 12.

Recalling broadcast stations

1. Press NEXT to display “1” – “6” (or “7” – “12”).

Press NEXT until “1” – “6” (or “7” – “12”) appears.

2. Press any of the buttons 1 – 6 (or 7 – 12) to recall the station preset under that button.

Note

- You can also use ▲ or ▼ to recall broadcast stations memorized under the buttons 1 – 12.

Changing a band

- Press BAND/ESC to select the desired band.

Press BAND/ESC repeatedly to switch between the following bands:

TV 1 – TV 2

TV tuner function menu

The TV tuner function menu has the following functions:

BSSM chLIST
① ②

- ① **BSSM (best stations sequential memory)**

Press BSSM repeatedly to turn BSSM on or off.

When finished, the display switches to the preset channel list mode.

- ② **chLIST (preset channel list)**

For operation of the preset channel list, refer to “Selecting channels from the preset channel list” on this page.

Note

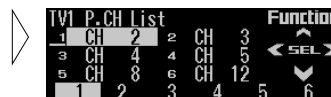
- If you do not operate the function within about 30 seconds, the display is automatically returned.

Selecting channels from the preset channel list

The preset channel list lets you see the list of preset channels and select one of them to receive.

1. Press FUNC and then press chLIST to select the preset channel list mode.

2. Press NEXT to switch between “1” – “6” and “7” – “12”.



TV1	P. CH List	Function
1	CH 2	2 CH 3
3	CH 4	4 CH 5
5	CH 8	6 CH 12
1	2	3 4 5 6

3. Press any of the buttons 1 – 6 (7 – 12) to recall the desired channel.

Note

- You can also use ◀, ▶ and ▲ to select and recall the desired channel.

Audio Adjustments

Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

1. Press **EEQ** to switch to the easy equalizer mode.
2. Press **NEXT** to switch between "CSTM2" and the other selections (curves).
3. Press the corresponding button to select the desired equalizer curve.

Button	Equalizer curve
FLAT	Flat
S.BASS	Super bass
PWRFL	Powerful
NATRL	Natural
VOCAL	Vocal
CSTM1	Custom1
CSTM2	Custom2

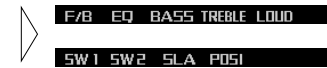
- "CSTM1" and "CSTM2" are adjusted equalizer curves.
- A separate "CSTM1" curve can be created for each source. (The Built-in CD player and Multi-CD player are set to the same Equalizer Curve Adjustment setting automatically when using the AVH-P6400CD.)
- If you make adjustments when a curve other than "CSTM2" is selected, the equalizer curve settings are memorized in "CSTM1".
- A "CSTM2" curve can be created common to all sources.
- If you make adjustments when the "CSTM2" curve is selected, the "CSTM2" curve is updated.
- When "FLAT" is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between "FLAT" and a set equalizer curve.

Notes

- You can also use ◀ and ▶ to select the desired equalizer curve.
- If you do not operate the function within about eight seconds, the display is automatically returned.
- "SW2" is displayed only when the subwoofer output is on in the subwoofer output mode (SW1).
- "SLA" is not displayed when you select FM tuner as the source.

Audio menu

The audio menu has the following functions:



Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1. Press **AUDIO** to select **F/B** (fader/balance).
2. Press ▲ or ▼ to adjust front/rear speaker balance.

Each press of ▲ or ▼ moves the front/rear speaker balance towards the front or the rear.

- "FADER F15" – "FADER R15" is displayed as the front/rear speaker balance moves from front to rear.
- "FADER FR00" is the proper setting when only two speakers are used.
- When the PREOUT setting is "SW", you cannot adjust front/rear speaker balance. Refer to "Switching the rear output setting" on page 50.

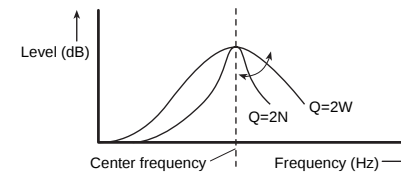
3. Press ◀ or ▶ to adjust left/right speaker balance.

Each press of ◀ or ▶ moves the left/right speaker balance towards the left or the right.

- "BALANCE L09" – "BALANCE R09" is displayed as the left/right speaker balance moves from left to right.

Adjusting equalizer curve

You can adjust the level, the frequency and the Q factor.



Audio Adjustments

1. Press **AUDIO** and then press **EQ**.
2. Press **◀** or **▶** to select the desired band for adjustment.
3. Press **FREQ** to select the desired frequency.
Press **▲** or **▼** until the desired frequency appears in the display.
40 – 80 – 100 – 160 (Hz)
200 – 500 – 1 k – 2 k (Hz)
3.15 k – 8 k – 10 k – 12.5 k (Hz)
4. Press **LEVEL** to select the level.
Each press of **▲** or **▼** increases or decreases the level. "+6" – "-6" is displayed as the level is increased or decreased.
5. Press **Q** to select the desired Q factor.
Press **▲** or **▼** until the desired Q factor appears in the display.
2 N – 1 N – 1 W – 2 W

Note

- If you make adjustments when a curve other than "CSTM2" is selected, "CSTM1" curve is updated.

Using bass adjustment

You can adjust the cut-off frequency and the bass level.

- In "FRT1" mode, bass adjustment affects only the rear output: front output cannot be adjusted.
1. Press **AUDIO** and then press **BASS**.
 2. Select the desired frequency with **◀/▶**.
Press **◀** or **▶** until the desired frequency appears in the display.
40 – 63 – 100 – 160 (Hz)
 3. Press **▲** or **▼** to adjust the bass level.
Each press of **▲** or **▼** increases or decreases the bass level. "+6" – "-6" is displayed as the level is increased or decreased.

Using treble adjustment

You can adjust the cut-off frequency and the Treble level.

- In **FRT1** and **FRT2** modes, treble adjustment affects only the front output: rear output cannot be adjusted.
1. Press **AUDIO** and then press **TREBLE**.
 2. Select the desired frequency with **◀/▶**.
Press **◀** or **▶** until the desired frequency appears in the display.
2.5k – 4k – 6.3k – 10k (Hz)
 3. Press **▲** or **▼** to adjust the treble level.
Each press of **▲** or **▼** increases or decreases the treble level. "+6" – "-6" is displayed as the level is increased or decreased.

Using loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1. Press **AUDIO** and then press **LOUD** to select the loudness mode.
2. Press **LOUD** to turn the loudness on.
"LOUDNESS ON" appears in the display.
 - Press **LOUD** again to turn loudness off.
3. Select the desired level with **◀/▶**.
Press **◀** or **▶** until the desired level appears in the display.
LOW – MID – HIGH

Audio Adjustments

Using subwoofer output

This unit is equipped with a subwoofer output which can be switched on or off. When a subwoofer is connected to the rear output, first, switch the rear output setting to subwoofer, then turn the subwoofer output on. For more details, see Switching the rear output setting on page 50.

1. Press **AUDIO** and **NEXT** and then press **SW1** to select the subwoofer output mode.
2. Press **SW1** to turn the subwoofer output on.
"SUB. W ON" appears in the display.
 - Press **SW1** again to turn subwoofer output off.

Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1. Press **AUDIO** and **NEXT** and then press **SW2** to select the subwoofer setting mode.

When the subwoofer output is on, you can select the "SW2".

2. Press **◀** or **▶** to select the cut-off frequency.

Each press of **◀** or **▶** selects cut-off frequencies in the following order:
50 – 63 – 80 (Hz)

3. Press **▲** or **▼** to adjust the output level of the subwoofer.

Each press of **▲** or **▼** increases or decreases the level of the subwoofer.

- "+6" – "-6" is displayed as the level is increased or decreased.

Note

- "SW2" is not displayed when the subwoofer output is off in the subwoofer output mode (SW1). In this case, this mode is inactive.

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the FM tuner volume level, which remains unchanged.

1. Compare the FM tuner volume level with the level of the source you want to adjust (e.g., built-in CD player).
2. Press **AUDIO** and then press **NEXT**.

3. Press **SLA** to select the SLA mode.

4. Press **▲** or **▼** to adjust the source volume.

Each press of **▲** or **▼** increases or decreases the source volume. "+4" – "-4" is displayed as the source volume is increased or decreased.

Notes

- Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.
- The MW/LW tuner volume level can also be adjusted using source level adjustment.
- The built-in CD and the multi-CD players are both set to the same source level adjustment volume automatically.
- External unit 1 and External unit 2 are set to the same volume adjustment setting automatically.

Setting the sound focus equalizer

Clarifying the sound image of vocals and instruments allows the simple staging of a natural, pleasant sound environment.

Even greater listening enjoyment will be obtained if seating positions are chosen carefully.

- "FRT1" boosts the treble on the front output and the bass on the rear output.
- "FRT2" boosts the treble and the bass on the front output and the bass on the rear output. (The bass boost is the same for both front and rear.)

For both "FRT1" and "FRT2" the "H" setting provides a more pronounced effect than the "L" setting.

1. Press **AUDIO** and **NEXT** and then press **POSI**.

FRT1-H (front1-high) – FRT1-L (front1-low) – FRT2-H (front2-high) – FRT2-L (front2-low) – CUSTM (custom) – SFEQ OFF (off)

2. Press **◀** or **▶** to select the desired position.

Press **◀** or **▶** until the desired position appears in the display.

LEFT (left) – CENTER (center) – RIGHT (right)

Note

- If you adjust the bass or treble, "CUSTM" memorizes an "POSI" mode in which the bass and treble are adjusted for personal preference.

Initial Settings

Initial settings menu

The initial settings menu has the following functions:

REV F.DEMO AUX G.ANI MUTE5 G.MIX
FMstep DT-WRN PREOUT A.PI

Note

- "DAB P." is displayed only when a separately sold hide-away DAB tuner (e.g., GEX-P700DAB) is connected.

Initial settings menu operation

You can operate the initial settings menu only when the source is off.

1. Press and hold **SOURCE** to turn the source off.

2. Press and hold **↔1** to enter the initial settings menu.

- When the source is off, you can check the location of "↔1" by turning on the feature demo.

DEMO Setup mode --- 1key
Hold for 2 seconds
↔1

Note

- Press **BAND/ESC** to cancel the initial settings menu.

Using reverse mode

If you do not carry out an operation within about 30 seconds, screen indications will start to reverse, and then continue reversing every 10 seconds.

You can turn the reverse mode on or off.

1. With the source turned off, press and hold **↔1** to select the reverse mode.

2. Press **REV** to turn the reverse mode on.

"ON" appears in the display.

- Press **REV** again to turn the reverse mode off.

Using the feature demo

The feature demo automatically starts when power to this product is switched off while the ignition switch is set to ACC or ON.

You can turn the feature demo on or off.

1. With the source turned off, press and hold **↔1**.
2. Press **F.DEMO** to select the feature demo mode.
3. Press **F.DEMO** to turn the feature demo on.

"ON" appears in the display.

- Press **F.DEMO** again to turn the feature demo off.

Note

- The red lead (ACC) of this product should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained.

Switching the auxiliary setting

It is possible to use auxiliary equipment with this product.

Turn the auxiliary setting on when using external equipment connected to this product.

1. With the source turned off, press and hold **↔1**.
2. Press **AUX** to select the AUX mode.
3. Press **AUX** to turn AUX on.

"ON" appears in the display.

- Press **AUX** again to turn AUX off.

Switching the guide animation setting

Navigation guide animation can be switched on and off.

1. With the source turned off, press and hold **↔1**.
2. Press **G.ANI** to turn the guide animation on.

"ON" appears in the display.

- Press **G.ANI** again to turn the guide animation off.

Initial Settings

Switching the muting/attenuation setting

- This setting controls whether the volume of the Head Unit is automatically muted during voice guidance.
 - Either muting or attenuation is selectable for the guide voice of the head unit when a mute signal has been received from a cell phone connected to the head unit.
1. With the source turned off, press and hold **↔** 1.
 2. Press **MUTE.S** to select the muting/attenuation mode.
 3. Press **MUTE.S** to select the desired setting.
Press **MUTE.S** repeatedly to switch between the following settings:
MUTE (muting) – ATT (attenuation) – NORMAL (no attenuation)

Setting the Guide Select

Car navigation audio (guidance) can be output from the front speakers.

1. With the source turned OFF, press and hold **↔** 1.
2. Press **G.MIX** to select the Guide Select mode.
3. Push the rotary stick **◀** or **▶**, or press the multi-function button to select the desired output setting.
LEFT + RIGHT – LEFT – RIGHT

Setting the FM tuning step

Normally, the FM tuning step is set at 50 kHz during seek tuning, however, it changes to 100 kHz when the AF or TA function is on.

You can set the FM tuning step to 50 kHz even when the AF or TA function is on.

1. With the source turned off, press and hold **↔** 1.
2. Press **NEXT** and then press **FMstep** to select the FM tuning step mode.
3. Press the corresponding button to select the desired tuning step.

Button	Tuning step
50K	50 kHz
100K	100 kHz

Notes

- The FM tuning step remains set at 50 kHz during manual tuning.
- The tuning step returns to 100 kHz if the battery is temporarily disconnected.

Setting the warning tone

The warning tone sounds to remind you to detach the front panel. (Refer to page 7.)
You can turn the warning tone function on or off.

1. With the source turned off, press and hold **↔** 1.
2. Press **NEXT** and then press **DT-WRN** to select the warning tone mode.
3. Press **DT-WRN** to turn the warning tone on.
“ON” appears in the display.
 - Press **DT-WRN** again to turn the warning tone off.

Switching the rear output setting

This unit's PREOUT (rear speaker leads output and RCA rear output) can be used for full-range speaker or subwoofer connection. If you switch the PREOUT setting to the subwoofer, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

- If you connect a subwoofer to the rear output, set the output setting to “SW”.
- Even if you change this setting, there is no output unless you switch the subwoofer output on (refer to “Using subwoofer output” on page 50).
- Both rear speaker leads output and RCA rear output are switched simultaneously in this setting.

1. With the source turned off, press and hold **↔** 1.
2. Press **NEXT** and then press **PREOUT** to select the preout setting mode.
3. Press **SW** or **REAR** to select the desired output setting.

Initial Settings

Setting the DAB priority function

When a hide-away DAB tuner (e.g., GEXP700DAB) is connected, you can set the product in this mode so that a traffic information interruption from the hide-away DAB tuner takes precedence over this product's RDS traffic announcement (TA) function.

1. With the source turned off, press and hold **■** 1.
2. Press **NEXT** and then press **DAB P.** to select the DAB priority setting mode.
3. Press **DAB P.** to turn the DAB priority setting on.

"ON" appears in the display.

- Press **DAB P.** again to turn the DAB priority setting off.

Note

- You can select to the DAB priority setting mode only when a separately sold hide-away DAB tuner (e.g., GEX-P700DAB) is connected.

With DAB priority ON

When the selected service component supports road traffic flashes and transport flashes, DAB reception is not interrupted by this product's RDS traffic announcement (TA).

With DAB priority OFF

Interruption is by the first received news flash, either this product's RDS or the hide-away DAB traffic information broadcast.

Switching the auto PI seek

During the preset station PI seek operation, you can switch the auto PI seek function on or off. (Refer to "Using the PI seek function" on page 31.)

1. With the source turned off, press and hold **■** 1.
2. Press **NEXT** and then press **A.PI** to select the auto PI seek mode.
3. Press **A.PI** to turn the auto PI seek on.

"ON" appears in the display.

- Press **A.PI** again to turn the auto PI seek off.

Other Functions

Attenuating audio volume

The attenuator lets you lower the volume level quickly (by about 90%).

1. Press **NEXT** to display **ATT**.
Press **NEXT** until "ATT" appears.
2. Press **ATT** to turn the attenuator on.
"ATT" appears in the display.
 - Press **ATT** again to turn the attenuator off and return to the original volume level.

Displaying the clock

You can turn the time display on or off.

Setting the time display on or off

1. Press **NEXT** to display **CLK**.
Press **NEXT** until "CLK" appears.
2. Press **CLK** and then press **ON/OFF** to turn the time display on.

The light illuminates.

- Press **ON/OFF** again to turn the time display off.

- If you press **BAND/ESC** and exit the calendar and time mode, the time display will appear instead of the source name.



Time Display

Note

- If you do not operate the function within about 60 seconds, the display is automatically returned.

Other Functions

Adjusting the brightness

Display brightness adjustment lets you adjust the display for easier viewing when lighting conditions change.

1. **Press NEXT to display C.MENU.**
Press NEXT until "C.MENU" appears.
2. **Press C.MENU and then press BRGT to select the brightness mode.**
3. **Press ◀ or ▶ to adjust the brightness.**
Each press of ◀ or ▶ increases or decreases the brightness.
 - "00" – "31" is displayed as the brightness is increased or decreased.

Switching the dimmer setting

To prevent the display from being too bright at night, the display is automatically dimmed when the car's headlights are turned on. You can switch the dimmer on or off.

1. **Press NEXT to display C.MENU.**
Press NEXT until "C.MENU" appears.
2. **Press C.MENU and then press DIMMER to select the dimmer mode.**
3. **Press DIMMER to turn the dimmer on.**
"ON" appears on the display.
 - Press DIMMER again to turn the dimmer off.

Selecting the wall paper pattern

There are three patterns to choose from.

1. **Press NEXT to display C.MENU.**
Press NEXT until "C.MENU" appears.
2. **Press C.MENU and then press PTRN to select the wall paper pattern mode.**
3. **Press any of the buttons A – C to select the desired pattern.**

Using the AUX source

An IP-BUS-RCA interconnector such as the CD-RB20 or CD-RB10 (sold separately) lets you connect this product to auxiliary equipment featuring RCA output. For more details, refer to the IP-BUS-RCA interconnector's owner's manual.

Selecting AUX as the source

- **Press SOURCE to select AUX as the source.**
Press SOURCE until "AUX" appears.
 - If the auxiliary setting is not switched on, AUX cannot be selected. For more details, see "Switching the auxiliary setting" on page 49.

Entering the AUX title

The title displayed for the AUX source can be changed.

1. **Press SOURCE to select AUX as the source.**
Press SOURCE until "AUX" appears.
2. **Press FUNC and then press TTLin to select the AUX title input mode.**
Refer to "Entering disc titles" on page 39, and perform procedures 3 to 7 in the same way.

Note

- Even if you do not press TTLin you can enter the title, but you will not be able to change the character types.

Additional Information

CD player and care

- Use only CDs that have either of the two Compact Disc Digital Audio marks as shown.



- Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.



- Check all CDs for cracks, scratches or warped discs before playing. CDs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a CD, wipe the disc with a soft cloth outward from the center of the disc.



- If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to not operate properly. If you think that condensation is a problem turn off the CD player for an hour or so to allow the CD player to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt CD playback.

CD-R/CD-RW discs

- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.
- Playback of discs recorded on a personal computer may not be possible depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)
- Playback of CD-R/CD-RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the car.
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- This product conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped over automatically (in the case of audio data (CD-DA)).
- If you insert a CD-RW disc into this product, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with the CD-R/CD-RW discs before using.

Understanding built-in CD player error messages

When problems occur during CD play an error message may appear on the display. If an error message appears on the display refer to the table below to see what the problem is and the suggested method of correcting the problem. If the error cannot be corrected, contact your dealer or your nearest Pioneer Service Center.

Message	Cause	Action
ERROR- 11, 12, 17, 30	Dirty disc.	Clean disc.
ERROR- 11, 12, 17, 30	Scratched disc.	Replace disc.
ERROR- 14	Unrecorded disc.	Check the disc.
ERROR- 22, 23	The CD format cannot be played back.	Replace disc.
ERROR- 10, 11, 12, 14, 17, 30, A0	Electrical or mechanical.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
ERROR- 44	All tracks are skip tracks.	Replace disc.

Additional Information

About traffic information

- Because the information is updated only periodically, it may take time to collect all the information.
- Not all RDS stations provide traffic information.
- Traffic information is not taken into account in calculating estimated time of arrival time or travel time for your destination.
- This product may not be able to receive traffic information in some areas.

- Pioneer does not bear responsibility for the accuracy of the information transmitted.
- Pioneer does not bear responsibility for changes to information services provided by broadcasting stations or by related companies, such as cancellation of the services or changing to pay-services. Also, we do not accept return of the product for this reason.

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France:

Sourcé: Géoroute ® IGN France & BD Carto ® IGN France

Germany:

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Great Britain:

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Italy:

La Banca Dati Italiana é stata prodotta usando quale riferimento anche cartographia numerica ed al tratto prodotta e fornita dalla Regione Toscana.

Portugal:

"Source: IgeoE-Portugal"

Spain:

Información geográfica propiedad del CNIG.

Sweden:

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Switzerland:

Topografische Grundlage: © Bundesamt für Landestopographie.

Specifications

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions (W x H x D):	
Chassis (DIN)	178 x 50 x 157 mm
Nose	188 x 58 x 19 mm
Weight	1.6 kg

Navigation

(GPS receiver)	
System	L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system	12ch
Reception frequency	1,575.42 MHz
Sensitivity	-130 dbm
Position update frequency	Approx. once per second
(Common)	
Maximum current consumption	10 A
Power source	DC 14.4 V (10.8 – 15.1 V allowed)
Ground type	Negative type
(GPS antenna)	
Aerial	Micro strip flat antenna/ right-handed helical polarizaton
Aerial cable	5.0 m
(Dimensions)	
Main unit	178 (W) x 50 (H) x 157 (D) mm
GPS antenna	46 (W) x 46 (H) x 13 (D) mm
(Weight)	
Main unit	1.5 kg
GPS aerial	115 g

Audio

Maximum power output	50 W x 4 50 W x 2 ch/4 Ω + 70 W x 1 ch/2 Ω (for subwoofer)
Continuous power output	27 W x 4 (DIN 45324, +B=14.4 V)
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout max output level/ output impedance	2.2 V/1 k Ω
Equalizer (3-Band Parametric Equalizer):	
(Low)	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	± 12 dB
(Mid)	
Frequency	200/500/1 k/2 k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	± 12 dB
(High)	
Frequency	3.15 k/8 k/10 k/12.5 k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	± 12 dB
Loudness contour:	
(Low)	+3.5 dB (100 Hz) +3 dB (10 kHz)
(Mid)	+10 dB (100 Hz) +6.5 dB (10 kHz)
(High)	+11 dB (100 Hz) +11 dB (10 kHz) (Volume: -30 dB)
Tone controls:	
(Bass)	
Frequency	40/63/100/160 Hz
Gain	± 12 dB
(Treble)	
Frequency	2.5 k/4 k/6.3 k/10 k Hz
Gain	± 12 dB

Additional Information

CD player

System Compact disc audio system
Usable discs Compact disc
Signal format:
Sampling frequency 44.1 kHz
Number of quantization bits 16; linear
Frequency characteristics 5 – 20,000 Hz (± 1 dB)
Signal-to-noise ratio 94 dB (1 kHz)
(IEC-A network)
Dynamic range 92 dB (1 kHz)
Number of channels 2 (stereo)

FM tuner

Frequency range 87.5 – 108.0 MHz
Usable sensitivity 9 dBf (0.8 μ V/75 Ω , mono,
S/N: 30 dB)
50 dB quieting sensitivity 15 dBf
(1.5 μ V/75 Ω , mono)
Signal-to-noise ratio 70 dB (IEC-A network)
Distortion 0.3% (at 65 dBf, 1 kHz,
stereo)
Frequency response 30 – 15,000 Hz (± 3 dB)
Stereo separation 40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range 531 – 1,602 kHz (9 kHz)
Usable sensitivity 18 μ V (S/N: 20 dB)
Selectivity 50 dB (± 9 kHz)

LW tuner

Frequency range 153 – 281 kHz
Usable sensitivity 30 μ V (S/N: 20 dB)
Selectivity 50 dB (± 9 kHz)

Note

- Specifications and the design are subject to possible modifications without notice due to improvements.

